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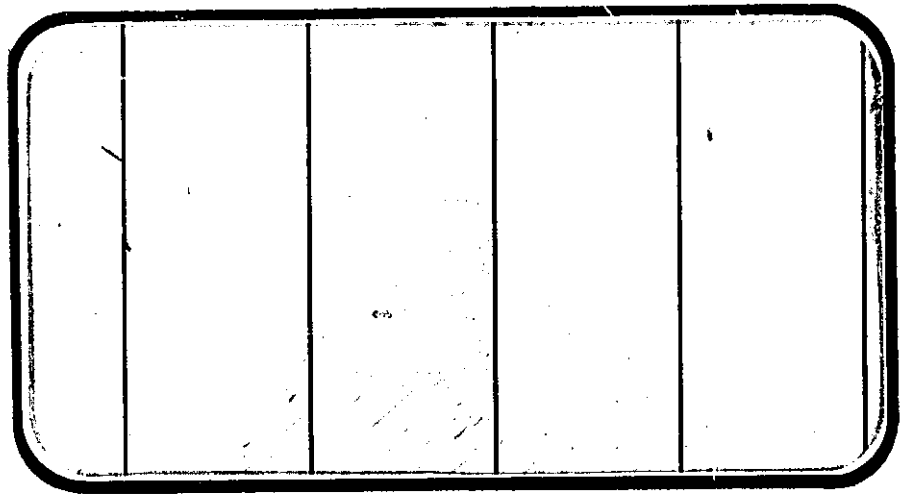

(NASA-CR-151080) RESULTS OF TESTS USING A 0.0125-SCALE MODEL (70-QT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (IA22), VOLUME 2 (Chrysler Corp.) 620 p HC A99/MF A01 CSCL 01A G3/16

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VOLUME 2 OF 3

RESULTS OF TESTS USING A 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (IA22)

by

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Prepared under NASA Contract Number NAS9-13247

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Houston, Texas

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NASA Series Number:	IA22
Model Number:	70-OT
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RESULTS OF TESTS USING A 0.0125-SCALE MODEL (70-OT) OF THE SPACE SHUTTLE VEHICLE ORBITER IN THE AEDC VKF TUNNEL B (IA22)

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ABSTRACT

An experimental investigation (test IA22) was conducted in the AEDC/VKF Tunnel B from May 4 through 8, 1976. Objective was to obtain interaction effects of RCS thruster jet plumes on SSV aerodynamics during staging to simulate RTLS abort. Investigated were interaction effects of the orbiter RCS thruster jet plumes on the orbiter and ET aerodynamics. RCS thruster jet plumes were simulated using both air and a 15 percent argon 85 percent helium gas mixture. The ET angle of attack range was -40 to +25 deg. at sideslip angles of 0, 3, and 6 degrees. Orbiter angle of attack was varied from -15 to +10 degrees at sideslip angles of 0 and 3 deg. External tank full scale separation distances simulated were 0 to 1400 in. axially; 0 to 54 in. laterally; and a range of -100 to 1000 in. vertically. Data were also obtained on the ET in the interference-free flow field, referred to as "Tank Isolated Data." Quiescent (no tunnel flow) thruster plume interaction data were obtained on the orbiter and orbiter-ET combination. Tests were conducted at Mach number 6 and a Reynolds number of 0.86 million per foot. Orbiter elevon deflections of

0 and -10 deg. were investigated. Two-component force data (normal force and hinge moment) were obtained on one of the orbiter umbilical doors in the fully open and half open (90°) orientations. Three RCS thruster configurations were simulated. Data report is in three volumes. Vol. 1 contains plotted data; Vol. 2 contains tabulated data sets R, S, T, U, AVK001 through R, S, T, U, AVK081; and Vol. 3 contains tabulated data sets R, S, T, U, AVK082 through R, S, T, U, AVK175.

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PLOT SCHEDULES:

(A) C_N, C_m, C_A, C_Y, C_n, and C_ℓ vs. Z (w/o RCS thrust)

(B) C_N, C_m, C_A, C_Y, C_n, and C_ℓ vs. Z

(C) Z vs. X

INTRODUCTION

RCS thruster jet interactions with aerodynamic characteristics during the Space Shuttle RTLS abort maneuver were investigated using a 0.0125-scale model of the orbiter vehicle 102 (preliminary) and external tank in the AEDC VKF Tunnel B during May 1976. Data were obtained through a pitch and yaw angle matrix at a Mach number of 6.0 and unit Reynolds number of 0.86 million per foot.

Test variables were separation parameters, elevon deflection angle, umbilical door position, and RCS thruster configuration. Orbiter and tank aerodynamic forces and moments were individually measured. Model base and cavity pressures were also measured.

This is a three-volume data report. Vol. 1 contains plotted data; Vol. 2 contains tabulated data sets R, S, T, U, AVK001 through R, S, T, U, AVK081; and Vol. 3 contains tabulated data sets R, S, T, U, AVK082 through R, S, T, U, AVK175.

NOMENCLATURE

Plot Symbol	Mnemonic	Definition
A_D		umbilical door reference area, ft.^{2}
A_{RCS}		RCS reference area, ft.^{2}
AEDC		Arnold Engineering Development Center
b_{ref}	BREF	reference span, in.
C_A		axial force coefficient
C_{A_T}	CA	total axial force coefficient
$C_{A_{T_R}}$	CAR	total axial force coefficient with RCS thrust included
$C_{h_{MD}}$	CHMD	umbilical door hinge moment coefficient
C_ℓ	CBL	body axis rolling moment coefficient
C_{ℓ_R}	CBLR	body axis rolling moment coefficient with RCS thrust included
C_m	CLM	pitching moment coefficient
C_{m_R}	CIMR	pitching moment with RCS thrust included
C_n	CYN	body axis yawing moment coefficient
C_{n_R}	CYNR	body axis rolling moment coefficient with RCS thrust included
C_N	CN	normal force coefficient
$C_{N_{FD}}$	CNFD	umbilical door normal force coefficient
C_{N_R}	CNR	normal force coefficient with RCS thrust included
$C_{P_{B_1}}, C_{P_{B_2}}$	CPB1, CPB2	orbiter base pressure coefficient
$C_{P_{B_3}}, C_{P_{B_4}}$	CPB3, CPB4	ET base pressure coefficient balance

NOMENCLATURE (Continued)

Plot Symbol	Mnemonic	Definition
$C_{P_{C_1}}$	CPC1	orbiter balance cavity pressure coefficient
$C_{P_{C_2}}$	CPC2	ET balance cavity pressure coefficient
C_{ref}		reference chord, inches
$C_{T_{AD}}$	CTAD	aft down-firing RCS thrust coefficient
$C_{T_{AS}}$	CTAS	aft side-firing RCS thrust coefficient
$C_{T_{AU}}$	CTAU	aft upward-firing RCS thrust coefficient
$C_{T_{FD}}$	CTFD	forward down-firing RCS thrust coefficient
$C_{T_{FS}}$	CTFS	forward side-firing RCS thrust coefficient
$C_{T_{FU}}$	CTFU	forward upward-firing RCS thrust coefficient
C_Y	CY	side force coefficient
C_{Y_R}	CYR	side force coefficient with RCS thrust included
ET		external tank
R_i		calibration factor for i^{th} RCS nozzle, lbs/psi
ℓ_D		umbilical door reference length, in.
ℓ_{ref}		reference length, orbiter body length, in.
M_∞	MACH	freestream Mach no.
MRP	MRP	moment reference point
n		number of RCS jets firing
P_{B1}, P_{B2}	PB1, PB2	orbiter base pressures, psia
P_{B3}, P_{B4}	PB3, PB4	ET base pressures, psia
P_{C_1}	PC1	orbiter balance cavity pressure, psia

NOMENCLATURE (Continued)

Plot Symbol	Mnemonic	Definition
P_{C2}	PC2	ET balance cavity pressure, psia
P_{C5}	PC5	orbiter RCS plenum chamber pressure $P_{C5}=P_{RC1}$, psia
P_{RC1}	PRC	primary RCS plenum chamber pressure measurement, psia
P_{RC2}	PRC2	back-up RCS plenum chamber pressure measurement, psia
q_∞	Q(PSI)	freestream dynamic pressure, psia
RCS	RCS	reaction control system
Re/ft	RE/FT	unit Reynolds number, per foot
S	SREF	orbiter and ET reference area, $ft.^2$
T_∞		freestream static temperature, $^\circ R$
T_{AD}	TAD	aft down-firing RCS thrust, lbs.
TAU	TAU	aft up-firing RCS thrust, lbs.
T_{FD}	TFD	forward down-firing RCS thrust, lbs.
T_{FU}	TFU	forward up-firing RCS thrust, lbs.
T_J		RCS thrust firing in j^{th} direction
T_o	TO	tunnel stilling chamber temperature, $^\circ R$
X_{MRP}	XMRP	longitudinal station of MRP, in.
X_o	XO	orbiter longitudinal station, in.
X_T	XT	ET longitudinal station, in.
Y_{MRP}	YMRP	lateral station of MRP, in.
Y_o	YO	orbiter lateral station, in.
Y_T	YT	ET lateral station, in.
Z_{MRP}	ZMRP	vertical station of MRP, in.

NOMENCLATURE (Continued)

Plot Symbol	Mnemonic	Definition
Z_O	ZO	orbiter vertical station, in.
Z_T	ZT	ET vertical station, in.
α_O	ALPHA	orbiter angle of attack, deg.
α_T	ALPHAT	ET angle of attack, deg.
β_O	BETA	orbiter angle of sideslip, deg.
β_T	BETAT	ET angle of sideslip, deg.
δ_a	AILRON	aileron deflection angle, deg.
δ_{BF}	BDFLAP	body flap deflection angle, deg.
δ_e	ELEVON	elevon deflection angle, deg.
δ_{eL}	ELV-L	left elevon deflection angle, deg.
δ_{eR}	ELV-R	right elevon deflection angle, deg.
δ_R	RUDDER	rudder deflection angle, deg.
δ_{SB}	SPDBRK	speed brake deflection angle, deg.
Δ_X	X	longitudinal displacement of tank nose from its mated position with respect to the orbiter, positive downstream, inches full scale
Δ_Y	Y	lateral displacement of the tank nose from its mated position with respect to the orbiter, positive left, inches full scale
Δ_Z	Z	vertical displacement of the tank nose from its mated position with respect to the orbiter, positive down, inches full scale
$\Delta\alpha$	DALPHA	differential angle of attack between orbiter and ET, $\alpha_T - \alpha_O$, deg.
$\Delta\beta$	DBETA	differential angle of sideslip between orbiter and ET, $\beta_T - \beta_O$, deg.

NOMENCLATURE (Continued)

Plot Symbol	Mnemonic	Definition
$\Delta\phi$		differential roll angle between orbiter and ET, $\phi_T - \phi_O$, deg.
ϕ_O	PHIO	orbiter roll angle, deg.
ϕ_T	PHIT	tank roll angle, deg.
C_T		thrust coefficient for RCS firing in j^{th} direction
	CTS	captive trajectory system
ΔP_B	DLPBAL	differential pressure across VTB-7 balance, psi
ΔT	DT	differential temperature across umbilical doors, ^{o}F
	GAS	RCS gas mixture, air or argon/helium (AR/HE)
	HMD	umbilical door hinge moment, in./lbs
MRC	MRC	moment reference center, in.
	NFD	umbilical door normal force, lbs.
	OMS	orbiter maneuvering system
P_∞		freestream static pressure, psf
P_c		RCS plenum chamber pressure
P_{RCS}		reaction control system pressure
	IML	inner mold line
	OML	outer mold line
	PS3	W-1131 S/A sting static pressure, psia
	RNTF	Rockwell International Rocket Nozzle Test Facility

Plot Symbol	Mnemonic	Definition
	RTLS	return to launch site
	T	tunnel freestream static temperature, °F
	TB1 TB2	measured balance temperature, °F
	TGAS	RCS gas temperature, °F
δ_{UMB}	UMBLDR	umbilical door position
	WM	mass flow from nozzle, lbs/sec.
	ZSWEEP	parameter to denote increasing Z

SUBSCRIPTS

S	orbiter spike coordinates, CTS
T	ET target coordinates, CTS

CONFIGURATIONS INVESTIGATED

The model used for these tests was a 0.0125-scale replica of the Rockwell International Space Shuttle Vehicle Configuration 102 (preliminary) orbiter and external tank designated model 70-OT. The SSV orbiter configuration is composed of a configuration control drawing VC70-000024 wing with modified OMS pods, VC70-000002A elevons and control drawing VC70-000002, MDV-70 baseline TML body. A three-view drawing of the orbiter configuration is shown in Figure 2a and b. The external tank configuration is shown in Figure 2c. Figure 2d shows the mated orbiter and tank.

The orbiter was constructed of steel to withstand the environment of the AEDC/VKF Tunnel B. The elevon settings, body flap, speed brake, and rudder remained at 0 degrees deflection throughout the test. Two umbilical doors provided on this model were tested at 0^{o} (open) and 90^{o} during the test. Figure 2e shows the umbilical door configuration.

Twenty-seven RCS thrusters were simulated on the model. The model RCS system is composed of three (3) nozzle "blocks" each with nine (9) nozzles simulating RCS thrusters, and two (2) alternate air supply systems as shown on Figure 2f. Each thruster was operated either by itself or in combination with other thrusters as shown on Figure 2g. The plenums for each block were connected to the tunnel high pressure air system via the model support sting. Nozzle air entered the model through the VTB flow-through balance (Figure 2h) making both nose and aft RCS thrusters metric.

CONFIGURATIONS INVESTIGATED (Continued)

The external tank model aft of X_T 362.5 (full scale) was built to the outer mold lines depicted on drawing VC78-000002C. The isentropic nose probes forward of X_T 362.5 is based on NASA drawing 8260020304 9. External tanks and their components, shown in Figure 2c, are of steel construction.

Orbiter configurations were denoted as follows:

$O_1 = B_{64}\ C_{16}\ E_{63}\ F_{14}\ M_{19}\ N_{94}\ V_{23}\ W_{129}$

$O_2 = B_{64}\ C_{16}\ E_{63}\ F_{14}\ M_{20}\ N_{94}\ N_{96}\ N_{97}\ V_{23}\ W_{129}$

$O_3 = B_{64}\ C_{16}\ E_{63}\ F_{14}\ M_{21}\ N_{94}\ N_{95}\ N_{96}\ N_{97}\ V_{23}\ W_{129}$

$O_4 = B_{64}\ C_{16}\ E_{63}\ F_{14}\ M_{21}\ N_{94}\ N_{95}\ N_{96}\ N_{97}\ U_1\ V_{23}\ W_{129}$

Where individual orbiter components were defined as (refer to Figure 2a):

Component	Definition	Model Drawings
B_{64}	Body	SS-A01357
C_{16}	Canopy	SS-A01357
E_{63}	Elevons	SS-A01356
F_{14}	Body Flap	SS-A01357
M_{19}	Orbiter Maneuvering System	SS-A01357 SS-A01358 SS-A01670
M_{20}	Orbiter Maneuvering System	SS-A01357 SS-A01358 SS-A01670
M_{21}	Orbiter Maneuvering System	SS-A01357 SS-A01358 SS-A01670

CONFIGURATIONS INVESTIGATED (Continued)

Component	Definition	Model Drawings
N_{94}	Main Propulsion Nozzles	SS-A01357
N_{95}	Forward Reaction Control System (see below)	SS-A01663
N_{96}	Left Aft Reaction Control System (see below)	SS-A01670
N_{97}	Right Aft Reaction Control System (see below)	SS-A01670
U_1	Umbilical Doors	SS-A01356
V_{23}	Vertical Tail	SS-A01357
W_{129}	Wing	SS-A01356

A general arrangement configuration drawing is shown in Figure 2a.

The following nomenclature was used for designation of nozzle block configurations (refer to Figures 2f and g):

Configuration	Position	Reference Drawing	Thruster Numbers	Thruster Position
N_{95}	Orbiter Nose	VS70-42109 (Model Drawing No. SS-A01663)	113	Upper Side Firing, Left Side
			123	Lower Side Firing, Left Side
			116	Forward Down Firing, Left Side
			126	Aft Down Firing, Left Side
			136	Forward Down Firing, Right Side
			146	Aft Down Firing, Right Side

CONFIGURATIONS INVESTIGATED (Continued)

Configuration	Position	Reference Drawing	Thruster Numbers	Thruster Position
N_{95} (cont'd)	Orbiter Nose	VS70-42109 (Model Drawing No. SS-A01663)	115	Up Firing, Left Side
			125	Up Firing, Center
			135	Up Firing, Right Side
N_{96}	Left OMS Pod	VL70-008470 (Model Drawing No. SS-A01670)	245	Up Firing, Forward
			225	Up Firing, Center
			215	Up Firing, Aft
			246	Down Firing, Forward
			226	Down Firing, Center
			236	Down Firing, Aft
			243	Side Firing, Forward
			223	Side Firing, Center
			233	Side Firing, Aft
N_{97}	Right OMS Pod	VL70-008470 (Model Drawing No. SS-A01670)	345	Up Firing, Forward
			325	Up Firing, Center
			315	Up Firing, Aft
			346	Down Firing, Forward
			326	Down Firing, Center

Configuration	Position	Reference Drawing	Thruster Numbers	Thruster Position
N_{97} (cont'd)	Right OMS Pod	VL70-008470 (Model Drawing No. SS-A01670)	336	Down Firing, Aft
			344	Side Firing, Forward
			324	Side Firing, Center
			334	Side Firing, Aft

The RCS nozzles were calibrated in the intermitted blowdown-vacuum test section 7' x 5' x 16' Test Chamber Rocket Nozzle Test Facility at the Rockwell International Los Angeles Division prior to the test. The calibration determined nozzle thrust as a function of plenum chamber pressure (Pc). Test chamber and nozzle plenum chamber pressures were recorded by a dial gage. Nozzle thrust was measured by a Revere No. 244267, 10-lb. capacity load cell. All 3 nozzle blocks were calibrated under vacuum conditions to simulate RTLS abort separation conditions encountered in the AEDC Tunnel B.

The following nomenclature was used to designate external tank components:

$$ET = T_{33}\ AT_{125}\ AT_{126}\ AT_{127}\ FL_{12}\ FL_{13}\ FR_{13}\ PT_{29}\ PT_{30}\ PT_{33}\ PT_{35}\ PT_{36}\ PT_{37}$$

where the model tank components were defined as follows (refer to Figure 2c).

Symbol	Component Description	Drawing
T_{33}	External Tank	SS-A01353
AT_{125}	Attach Structure (forward)	SS-A01354
AT_{126}	Attach Structure (aft right)	
AT_{127}	Attach Structure (aft left)	
FL_{12}	Feedline (LO_2) Upper Right	
FL_{13}	Feedline (ET to Orbiter)	
FR_{13}	Aft Attach Structure Fairing	
PT_{29}	Electrical Conduit, R.H. Forward Nose	
PT_{30}	Electrical Conduit, and LO_2 Lines (Upper Right)	
PT_{33}	LH_2 Pressure Line (Upper Left)	
PT_{35}	Forward SRB/ET Attach Fitting	
PT_{36}	Aft Lower SRB/ET Attach Fitting	
PT_{37}	Aft Upper SRB/ET Attach Fitting	

Detailed model component dimensional data are given in Table III.

The orbiter was mounted in AEDC Tunnel B in an inverted position as shown in Figure 2i. The LTV VTB-7 flow-through balance measured orbiter forces and moments. The balance was supported by the Rockwell W-1131 S/A sting and 11158 support mechanism which mounted on the tunnel primary sector. External tank forces and moments were measured by the AEDC VKF 4.00-Y-36-049 internal strain gage balance, which attached to the Rockwell VY109630 sting and was supported by the tunnel capture trajectory system (CTS). Figures 2j and k define the axis system used

to define orbiter and tank separation distances and angles. Figure 3 shows photographs of the model installed in the tunnel.

The orbiter and external tank models were each instrumented to measure two (2) base and one (1) cavity pressure. Each RCS plenum chamber (nose, left aft, and right aft) was instrumented to measure its RCS supply air pressure.

Orbiter umbilical door was instrumented to measure door hinge moment and normal force.

TEST FACILITY DESCRIPTION

Arnold Engineering Development Center (AEDC) is an Air Force facility located in Tullahoma, Tennessee. The tunnel used, Tunnel B, is in the von Karman Facility. Engineering and other technical operations in this tunnel are conducted by contractor personnel of ARO, Inc.

Tunnel B is a continuous, closed circuit, variable density wind tunnel with an axisymmetric contoured nozzle and a 50-inch diameter test section. The tunnel can be operated at nominal Mach numbers of 6 or 8 at stagnation pressures from 20 to 300 and 50 to 900 psia, respectively, and at stagnation temperatures of up to 1350°R. The model may be injected into the tunnel for a test run and then retracted for model cooling, or model changes, without interrupting the tunnel flow.

DATA REDUCTION

Standard AEDC methods were used to compute tunnel parameters and nozzle mass flow. Base and balance cavity pressures were reduced to pressure coefficients. No base or cavity corrections were applied to the balance data.

Data from both balances were reduced to coefficient form in body axes affixed to the orbiter and tank. Nominal model attitude and position data were determined using standard AEDC methods. Linear and angular displacements of the models due to sting/balance deflections under load were calculated and applied to correct nominal model attitude and position values.

Orbiter balance data were corrected to remove interractions caused by RCS supply air flowing through the VTB-7 balance during runs with RCS nozzles firing. An additional set of orbiter data, with RCS thrust removed, was also calculated and is presented. RCS thrust was calculated using tares obtained during static firings of the various RCS nozzle configurations made with the RCS system installed on the orbiter fuselage in AEDC Tunnel B when the tunnel was not blowing. Thrust coefficients were also calculated for these runs. Thrust was calculated based on the RNTF nozzle calibrations (discussed under Configurations Investigated). This involved the following calculations:

$$T_j = \sum_{\substack{\text{all } i \\ \text{firing}}} R_i \quad PC_5 \quad - nP_\infty A_{RCS}$$

$$C_{T_j} = \frac{T_j}{q_\infty A_{RCS}}$$

where:

j = direction of jet	i = index denoting jets which were firing
FD = forward down	116, 126, 136, and/or 146
FS = forward side	113 and/or 123
FU = forward up	115, 125, and/or 135
AD = aft down	226, 236, 246, 326, 336, and/or 346
AS = aft side	223, 233, 243, 324, 334, and/or 344
AU = aft up	215, 225, 245, 315, 325, and/or 345

Figures 2f and g show these jet locations on the model and jet configurations fired during this test.

Umbilical door hinge moment and normal force data were reduced to coefficient form as follows:

$$C_{h_{MD}} = \frac{h_{MD}}{q_\infty A_D \ell_D}$$

$$C_{N_{FD}} = \frac{N_{FD}}{q_\infty A_D}$$

The following reference dimensions and constants were used:

Symbol	Description	Value	
		Full Scale	Model Scale
A_D	umbilical door reference area, ft.^{2}	17.2	0.0026875

DATA REDUCTION (Concluded)

Symbol	Description	Value	
		Full Scale	Model Scale
A_{RCS}	RCS reference area, ft.^{2}	1.0	0.000156
ℓ_{ref}, C_{ref}, b_{ref}	orbiter and ET reference length, in.	1290.3	16.129
ℓ_D	umbilical door reference length, in.	50.592	0.6324
S	orbiter and ET reference area, ft.^{2}	2690.0	0.4203
X_{MRP_O}	orbiter moment reference point longitudinal station, in. X_O	1089.6	13.62
X_{MRP_T}	ET moment reference point longitudinal station, in. X_T	1328.72	16.609
Y_{MRP_O}	orbiter moment reference point lateral station, in. Y_O	0.0	0.0
Y_{MRP_T}	ET moment reference point lateral station, in. Y_T	0.0	0.0
Z_{MRP_O}	orbiter moment reference point vertical station, in. Z_O	375.0	4.688
Z_{MRP_T}	ET moment reference point vertical station, in. Z_T	416.4	5.205

REFERENCES

1. NA74-518 "Structural Analysis of the 0.0125-Scale SSV Model (70-OT)," December, 1975.

2. SD74-SH-0094, "Pretest Information for External Tank Separation Test IA17 Using the 0.010-Scale SSV Model (52-OT) in the AEDC-VKF Tunnel B," February 22, 1974.

3. SD75-SH-0148, "Pretest Information for Separation Test IA114 Using the 0.010-Scale SSV Model (52-OT) in the AEDC-VKF Tunnel B," July 8, 1975.

4. SD75-SH-0256, "Pretest Information for RTLS Abort Separation Tests IA22/OA169 Using the 0.0125-Scale SSV Model (70-OT) in the AEDC-VKF Tunnel B," dated February 16, 1976.

TABLE I.

TEST : IA22 DATE : Post-test

TEST CONDITIONS

MACH NUMBER	UNIT REYNOLDS NUMBER (million per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
5.9	0.86	0.65	391

BALANCE UTILIZED: Orbiter: LTV VTB-7
External Tank: 4.00-Y-36-049

	VTB-7	4.00-Y-36-049	COEFFICIENT TOLERANCE:
NF	± 80 lb.	±200 lb.	
SF	± 40 lb.	±200 lb.	
AF	± 30 lb.	±100 lb.	
PM	±320 in.-lb.	±680 in.-lb.	
RM	±160 in.-lb.	±680 in.-lb.	
YM	± 25 in.-lb	±100 in.-lb.	

COMMENTS:

TABLE II.

TEST: IA22, AEDC V41B-D9A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2 Z	PARAMETERS X	Y	α_o	β_o	$\Delta\beta$	Pc	δ_{se}	δ_{sym}	DALPHA ($\Delta\alpha$) -20	-15	-10	-5	0	5	10
VK001	O4/ET (RC1)	A	0	0	-15	0	0	978	0	0	2662	2650	2654	2658	2666		
02			200								2663	2651	2655	2659	2667		
03			400								2664	2652	2656	2660	2668		
04			600								2665	2653	2657	2661	2669		
05			0		-10						2670	2674	2678	2682	2686		
06			200								2671	2675	2679	2683	2687		
07			400								2672	2676	2680	2684	2688		
08			600								2673	2677	2681	2685	2689		
09			0		-5				(INCREASING Z)				2352		2366		2368
10			0						(DECREASING Z)				2353		2367		2369
11			0								2690	2694	2705	2713	2370	2376	
12			200								2691	2702	2706	2714	2371	2377	
13			400								2692	2703	2707	2715	2372	2378	
14			600								2693	2704	2708	2716			
15			0	54			3						2709		2373	2379	
16			200										2710		2374	2380	
17			400										2711		2375	2381	
18			600										2702				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

REFER TO LAST PAGE OF TABLE

α OR β SCHEDULES: A) -50 to 1000 inches (full scale) COEFFICIENTS in total

IDVAR (1) IDVAR (2) NCL

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TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2 Z	PARAMETERS X	Y	α_o	β_o	$\Delta\beta$	Pc	δ_e	δ_{sum}	DALPHA ($\Delta\alpha$) -20	-15	-10	-5	0	5	10
VK019	O4/ET (RC1)	A	0	0	-5	3	0	978	0	0	2787	2791	2795	2799	2486	2489	
20			200								2788	2792	2796	2800	2487	2490	
21			400								2789	2793	2797	2801	2488	2491	
22			600								2790	2794	2798	2802			
23	(RC2)		0								2847	2851	2855	2859	2480	2483	
24			200								2848	2852	2856	2860	2481	2484	
25			400								2849	2853	2857	2861	2482	2485	
26			600								2850	2854	2858	2862	2459	2462	
27	(RC3)		0			0					2807	2811	2815	2819	2460	2463	
28			200								2808	2812	2816	2820	2461	2464	
29			400								2809	2813	2817	2821			
30			600								2810	2814	2818	2822			
31	(RC1)		0		0						2751	2755	2759	2388	2394	2400	
32			200								2752	2756	2760	2389	2395	2401	
33			400								2753	2757	2761	2390	2396	2402	
34			600								2754	2758	2762				
35			0	54			3							2391	2397	2403	
36			200	54			3							2392	2398	2404	

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REFER TO LAST PAGE OF TABLE

IDVAR(1) IDVAR(2) NCV

α OR β SCHEDULES

COEFFICIENTS

A) -50 to 1000 inches (full scale) in total

TABLE II. (Continued)

TEST: IA22. AEDC V41B-D9A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2 Z	PARAMETERS X	Y	α_o	β_o	$\Delta\beta$	P_c	δ_e	δ_{SUMB}	DALPHA ($\Delta\alpha$) -20	-15	-10	-5	0	5	10
VK037	O_4/ET (RC1)	A	400	54	0	0	3	978	0	0				2393	2399	2405	
38			0	0		3	0				2775	2779	2783	2492	2495	2498	
39			200								2776	2780	2784	2493	2496	2499	
40			400								2777	2781	2785	2494	2497	2500	
41			600								2778	2782	2786				
42	(RC2)		0								2835	2839	2843				
43			200								2836	2840	2844				
44			400								2837	2841	2845				
45			600								2838	2842	2846				
46	(RC3)		0			0					2823	2827	2831	2465	2468	2471	
47			200								2824	2828	2832	2466	2469	2472	
48			400								2825	2829	2833	2467	2470	2473	
49			600		5						2826	2830	2834				
50	(RC1)		0								2743	2747	2423	2429	2435	2441	
51			0										2415	2420			
52			200								2744	2748	2424	2430	2436	2442	
53			200										2416	2421			
54			400								2745	2749	2425	2431	2437	2443	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

REFER TO LAST PAGE OF TABLE

α OR β SCHEDULES: A) -50 to 1000 inches (full scale) in total

COEFFICIENTS

IDVAR (1) IDVAR (2) NC

TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2	PARAMETERS								DALPHA (Δα)						
		Z	X	Y	α_o	β_o	$\Delta\beta$	Pc	δ_e	δ_{SUMB}	-20	-15	-10	-5	0	5	10
VK055	O4/ET (RC1)	A	400	0	5	0	0	978	0	0			2417	2422			
56			600	0			0				2746	2750					
57			0	54			3						2426	2432	2438	2444	
58			200										2427	2433	2439	2445	
59			200										2418				
60			400										2428	2434	2440	2446	
61			400										2419				
62			0	0	-5		0	0					2350	(INCREASING Z)			
63			0										2351	(DECREASING Z)			
64			0								2717	2721	2725	2729	2382	2385	
65			200								2718	2722	2726	2730	2383	2386	
66			400								2719	2723	2727	2731	2384	2387	
67			600								2720	2724	2728	2732			
68	(RC2)		0			3					2863	2867	2871	2875			
69			200								2864	2868	2872	2876			
70			400								2865	2869	2873	2877			
71			600								2866	2870	2874				
72	(RC1)		0	0	0	0					2763	2767	2771	2406	2409	2412	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

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α OR β SCHEDULES — COEFFICIENTS: A) -50 to 1000 inches (full scale) in total — IDLAR(1) IDVAR(2) NCS

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TABLE II. (Continued)

TEST: IA22, AEDC V41B-09A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2	PARAMETERS								DALPHA (Δα)						
		Z	X	Y	α_o	β_o	$\Delta\beta$	P_c	δ_e	δ_{UMB}	-20	-15	-10	-5	0	5	10
VK073	O_4/ET (RC1)	A	200	0	0	0	0	0	0	0	2764	2768	2772	2407	2440	2443	
74			400								2765	2769	2773	2408	2441	2414	
75			600								2766	2770	2774				
76			0		5						2735	2739	2447	2450	2453	2456	
77			200								2736	2740	2448	2451	2454	2457	
78			400								2737	2741	2449	2452	2455	2458	
79			600								2738	2742					
80			0		-5			978		90					2606	2607	
81			200										2586	2588	2590	2592	
82			400										2587	2589	2591	2593	
83			0			3							2574	2577	2580	2583	
84			200			3							2575	2578	2581	2584	
85			400			3							2576	2579	2582	2585	
86			0		0	0								2616	2617	2618	
87			200			0							2608	2610	2612	2614	
88			400			0							2609	2611	2613	2615	
89			0			3							2562	2565	2568	2571	
90			200			3							2563	2566	2569	2572	

1 7 13 19 25 31 37 43 49 55 61 67 75 78

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IDLAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICIENTS: A) -50 to 1000 inches (full scale) in total

TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2 Z	PARAMETERS X	Y	α_o	β_o	$\Delta\beta$	Pc	δe	δ_{UMB}	DALPHA (Δα) -20	-15	-10	-5	0	5	10
VK091	O4/ET (RC1)	A	400	0	0	3	0	978	0	90			2564	2567	2570	2573	
92			0		-5	0		0					2594	2597	2600	2603	
93			200					0					2595	2598	2601	2604	
94			400					0					2596	2599	2602	2605	
95			0					978	-10	0			2627	2629	2631	2633	
96			400										2628	2630	2632	2634	
97			0		0								2619	2621	2623	2625	
98			400		0								2620	2622	2624	2626	
99			0		-5			0					2635	2637	2639		
100			400					0					2636	2638	2640		
101			0					978		90			2538	2540	2542	2544	
102			400			3							2539	2541	2543	2545	
103			0			3							2546	2548	2550	2552	
104			400			3							2547	2549	2551	2553	
105			0		0	0							2537	2531	2533	2535	
106			200										2521	2523	2525	2527	
107			400										2530	2532	2534	2536	
108			400										2522	2524	2526	2528	

1 7 13 19 25 31 37 43 45 55 61 67 75 78

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IDVAR(1) IDVAR(2) NCV

α OR β SCHEDULES — COEFFICIENTS: A) -50 to 1000 inches (full scale) in total

TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IV2	PARAMETERS								DALPHA (Δα)						
		Z	X	Y	α_o	β_o	Δβ	Pc	δ_e	δ_{UMB}	-20	-15	-10	-5	0	5	10
VK109	O4/ET (RC1)	A	0	0	0	3	0	978	-10	90			2554	2556	2558	2560	
110	↓	↓	400	0	0	3	0	978	-10	90			2555	2557	2559	2561	
↓ 111	↓	↓	0	0	0	0	0	0	-10	90			2529				

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IDVAR(1) IDVAR(2) NDV

α OR β SCHEDULES

COEFFICIENTS

A) -50 to 1000 inches (full scale) in total

TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	INZ	PARAMETERS									VERTICAL SEPARATION DISTANCE (Z)							
		X	Y	α_o	β_o	$\Delta\alpha$	$\Delta\beta$	Pc	δe	δ_{JUMB}	-100	-75	-50	15	100	200	400	600
VK 112	O4/ET (RC1)	B	0	-5	0	10	0	978	0	0		2915		2916	2917	2918	2919	2920
113			0			15	0				2927		2928	2929	2930	2931	2932	2933
114			0			20	0				2934		2935	2936		2937	2938	*2939
115			54			10	3					2921		2922	2923	2924	2925	2926
116			0		3	10	0					2947		2948	2949	2950	2951	2952
117						15					2953		2954	2955	2956	2957	2958	2959
118						20					2960		2961	2962		2963	2964	*2965
119	(RC2)					10						2997		2998	2999			
120						15					3000		3001					
121						20					3002		3003					
122	(RC3)				0	10						3022		3023	3024	3025	3026	3027
123						15					3028		3029	3030	3031	3032	3033	3034
124						20					3035		3036	3037		3038	3039	*3040
125	(RC1)			0		10						2879		2880	2881	2882	2883	2884
126						15					2885		2886	2887	2888	2889	2890	2891
127					3	10						2966		2967	2968	2969	2970	2971
128					3	15					2972		2973	2974	2975	2976	2977	2978

LAST RUN NUMBER

1 7 13 19 25 31 37 43 49 55 61 67 75 76

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IDVAR (1) IDVAR (2) NCV

α OR β SCHEDULES

COEFFICIENTS

B) 0 to 1400 inches (full scale)

* Z = 500 inches

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TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									VERTICAL SEPARATION DISTANCE (Z)							
		M2 X	Y	α_o	β_o	$\Delta\alpha$	$\Delta\beta$	P_c	δ_e	δ_{JUMP}	-100	-75	-50	15	100	200	400	600
VK 129	O4/ET (RC2)	B	0	0	3	10	0	978	0	0		3004		3005	3006			
130					3	15					3007		3008					
131	(RC3)				0	10						3009		3010	3011	3012	3013	3014
132						15					3015		3016	3017	3018	3019	3020	3021
133	(RC1)			5		10						2902		2903	2904	2905	2906	2907
134						15					2908		2909	2910	2911	2912	2913	2914
135					3	10						3057		3058	3059	3060	3061	3062
136						15					3063		3064	3065	3066	3067	3068	3069
137	(RC2)					10						2992		2993	2994			
138						15					2995		2996					
139	(RC3)				0	10						3041		3042	3043			
140						10						3044		3045	3046	3047	3048	3049
141						15					3050		3051	3052	3053	3054	3055	3056
142	(RC1)			10		10						2979		2980	2981	2982	2983	2984
143	(RC1)			10		15					2985		2986	2987	2988	2989	2990	*2991

TEST RUN NUMBER

1 7 13 19 25 31 37 43 49 55 61 67 75 76

REFER TO LAST PAGE OF TABLE

ID VAR (1) Z VAR (2) NCV

α OR β SCHEDULES

COEFFICIENTS: B) 0 to 1400 inches (full scale)

* Z = 440 inches

TABLE II. (Continued)

TEST : IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE : Post-Test

DATA SET IDENTIFIER	CONFIGURATION	IN2	PARAMETERS									VERTICAL SEPARATION DISTANCE (Z)							
		X	Y	α_0	β_0	$\Delta\alpha$	$\Delta\beta$	Pc	δe	δ_{sum}	-100	-75	-50	15	100	200	400	600
VK144	O4/ET (RC1)	B	0	-5	0	10	0	0	0	0		2940		2941	2942			
145				-5		15					2943		2944					
146				-5		20					2945		2946					
147				0		10						2892		2893	2894			
148				0		15					2895		2896					
149				5		10						2897		2898	2899			
150				5		15					2900		2901					
151				-5		10		978	-10			3078		3079	3080			
152				-5		15					3081		3082					
153				-5		20					3083		3084					
154				0		10						3085		3086	3087			
155				0		15					3088		3089					
156				5		10						3073		3074	3075			
157				5		15					3076		3077					
158				0		10		0				3090		3091	3092			
159				0		15		0			3093		3094					

LAST RUN NUMBER

1 7 13 19 25 31 37 43 49 55 61 67 75 76

REFER TO LAST PAGE OF TABLE

COEFFICIENTS

α OR β SCHEDULES: B) 0 to 1400 Inches (full scale)

IDEAR (1) IDEAR (2) NCN

TABLE II. (Continued)

TEST : IA22, AEDC V41B-D9A — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE · POST-TEST

DATA SET IDENTIFIER	CONFIGURATION	IN2 Z	PARAMETERS X	Y	α_o	β_o	$\Delta\beta$	P_c	GAS	δ_e	δ_{sum}	DALPHA ($\Delta\alpha$) -15	-10	-5	0	5	10
VK160	O_4/ET (RC1)	A	0	0	-5	0	0	978	Ar/He	0	0		2503	2504	2505		
161			400					978							2506		
162			0					403						2507	2508		
163			0					760						2509	2510	2511	
164			0					400						2512	2513	2514	

RCS PLENUM PRESSURE (PRC)

$\Delta\alpha\Delta\beta$	X	Y	Z	α_o	β_o	δ_e	δ_{sum}		
VK165 O_4/ET (RC1)	C 0	D 0	E 0	0	0	0	0	0	978
166	0			0	0			2501	2502
167	0			-5	0			2641	
168	0			-5	0				2734
169	0			-5	0			2733	
*170	0			-15	0				2878

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IDVAR (1) IDVAR (2) NDV

REFER TO LAST PAGE OF TABLE

α OR β SCHEDULES

COEFFICIENTS

A) -50 to 1000 inches (full scale) in total

C) 0° to -24°

D) 0 to 600 inches E) 0 to 1200 inches

*R/V DATA NOT AVAILABLE (NO TUNNEL AIR, M=0)

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TABLE II. (Continued)

TEST: IA22, AEDC V41B-D9A — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: Post-test

DATA SET IDENTIFIER	CONFIGURATION	IV2/dT	βT 0°	βT 3°	βT 6°	MACH NUMBERS	TEST RUN NUMBER
-VK 171	ET	F	2803	2804	2805		
172		F	2806				
173		G	2515	2516	2517		
174		G	2518	2519	[illegible]		
175		H	3070	3071	3072		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICIENTS

F) -10.5° → -4°, Δα = 2.5°

G) -15° → 15°, Δα = 2.5°

H) 25° → -5°, Δα = 2.5°

TABLE II. (Concluded)
IA22 SOURCE DATA SCHEDULE

DESCRIPTION	DATASET	INDEPENDENT VARIABLES		COEFFICIENTS									
		FIRST	SECOND	1	2	3	4	5	6	7	8	9	10
Orb. with RCS Thrust & ET Separating	*RVK---	DALPHA	Z	X	Y	BETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
		Z	X	Y	DALPHA	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
		PRC	DALPHA	X	Y	Z	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
Orb. without RCS Thrust & ET Separating	SVK---	DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL	--
		Z	X	ALPHA	DALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
		PRC	DALPHA	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL	--
Umb. Door & RCS Thrust Data with ET Separating	*TVK---	DALPHA	Z	Y	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
		Z	X	Y	DALPHA	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
		PRC	DALPHA	Z	Z	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
ET Data Separating from Orb.	AVK---	DALPHA	Z	ALPHA	ALPHAT	BETA	BETAT	CN	CLM	CA	CY	CYN	CBL
		Z	X	ALPHA	ALPHAT	BETA	BETAT	CN	CLM	CA	CY	CYN	CBL
		PRC	DALPHA	X	Z	ALPHAT	BETAT	CN	CLM	CA	CY	CYN	CBL
Press. & Temp. Data	*UVK---	DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T	--
		Z	X	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T	--
		PRC	DALPHA	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T	--	--
ET Isolated Data	AVK171 AVK175	BETAT	ALPHAT	CN	CLM	CY	CYN	CBL	CA	MACH	--	--	--

* When the RCS was off (non-firing), these data sets are omitted.

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT_{125}

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure).

MODEL SCALE: 0.0125

DRAWING NO.: VC72-000002, VC78-000002C

DIMENSIONS	MEMBER		FULL SCALE	MODEL SCALE
(Location of end pins centerline)	#1	X_o	388.15	4.852
		Y_o	0	0
		Z_o	283.107	3.539
		X_T	1129.90	14.124
		Y_T	44.00	0.550
		Z_T	562.395	7.030
	#2	X_o	388.15	4.852
		Y_o	0	0
		Z_o	283.107	3.539
		X_T	1129.90	14.124
		Y_T	- 44.00	- 0.550
		Z_T	562.395	7.030
Diameter, In.	#1		6.0	0.075
	#2		6.0	0.075

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT_{126}

GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

MODEL SCALE: 0.0125

DRAWING NUMBER: VC72-000002, VC78-000002C

DIMENSIONS: (Location of end pins centerline)	MEMBER		FULL SCALE	MODEL SCALE
	VERTICAL STRUT	X_o	1317.00	16.463
		Y_o	96.50	1.206
		Z_o	267.556	3.344
		X_T	2058.00	25.725
		Y_T	125.98	1.575
		Z_T	515.78	6.447
	THRUST STRUT	X_o	1317.00	16.463
		Y_o	96.50	1.206
		Z_o	267.556	3.344
		X_T	1888.98	23.612
		Y_T	125.98	1.575
		Z_T	515.78	6.447
	DIAGONAL CROSS STRUT	X_o	1317.00	16.463
		Y_o	88.0	1.100
		Z_o	260.056	3.251
		X_T	2058.00	25.725
		Y_T	- 14.00	- 0.175
		Z_T	569.10	7.114
Diameter of members, In.:	VERTICAL		11.50	0.144
	THRUST		15.50	0.194
	DIAGONAL		4.00	0.050

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT_{127}

GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2 member structure).

MODEL SCALE: 0.0125

DRAWING NUMBER: VC72-000002, VC78-000002C

DIMENSIONS: (Location of end pins centerline)	MEMBER		FULL SCALE	MODEL SCALE
	VERTICAL STRUT	X_o	1317.00	16.463
		Y_o	- 96.50	- 1.206
		Z_o	267.556	3.344
		X_T	2058.00	25.725
		Y_T	- 125.98	- 1.575
		Z_T	515.78	6.447
	THRUST STRUT	X_o	1317.00	16.463
		Y_o	- 96.50	- 1.206
		Z_o	267.556	3.344
		X_T	1888.98	23.612
		Y_T	- 125.98	- 1.575
		Z_T	515.78	6.447
Diameter, In.	VERTICAL		11.50	0.144
	THRUST		15.50	0.194

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BODY - B_{64}

GENERAL DESCRIPTION: The body is to the Baseline Definition Space Shuttle Vehicle Conf. 5, MCR 200, Rev. 7, dated 10/17/74.

DRAWING NUMBER: VC70-000002, *MDV-70 Baseline IML

DIMENSIONS:	FULL SCALE	MODEL SCALE
Ref. Length (X_o = 238-1528.3)	1290.3	16.129
*Length (IML X_o = 239.5)	1288.8	16.110
(1) Length (OML X_o = 235-1528.3)	1293.3	16.166
(OML) Max Width (X_o = 1516.8013), In.	262.7184	3.284
(IML) Max. Width (X_o = 1516.8013), IN.	260.7184	3.34
(OML) Max Depth (X_o = 1463.316)	248.575	3.107
(IML) Max. Depth (X_o = 1463.316)	246.575	3.082
Fineness Ratio	5.1365	5.1365
IML Fineness Ratio	5.1525	5.1525
Area - Ft^2		
Max. Cross-Sectional (@ X_o = 1463.316)	340.82	0.053

(IML--inner mold line; OML--outer mold line)

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: CANOPY - C_{16}

GENERAL DESCRIPTION: Orbiter 102 canopy per MCR 1750, R1 Baseline

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A, MD-V70

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X_o = 433.0793 to X_o = 670), In.	236.9207	2.962
Max Width (X_o 594), In.	194.4394	2.430
Max Depth (@ X = 992), In.	58.8007	0.735
Fineness Ratio		
Area - $Ft.^2$		
Max. Cross-Sectional @ X_o = 520	45.6558	0.007

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: ELEVONS - E_{63}

GENERAL DESCRIPTION: Elevon for Configuration 5, hingeline at X_o = 1387, elevon split line, Y_o = 312.5, 6.0"" gaps beveled ledges, and center-bodies "OML" used on W_{129}.Ref. MCR 200, Rev. 7, dated 10-17-74.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A

DIMENSIONS:	FULL SCALE	MODEL SCALE
Area used for C_{He} computation.	210.0	0.033
Area - Ft^2	206.57	0.032
Span (equivalent), In.	346.44	4.331
Inb'd equivalent chord, In.	116.50	1.456
Outb'd equivalent chord, In.	55.219	0.690
Ratio movable surface chord/ total surface chord		
At inb'd equiv. chord	0.2137	0.2137
At outb'd equiv. chord	0.3999	0.3999
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline	0.00	0.00
Area Moment (Product of area & $\bar{c}$), Ft^3	1540.74	0.004
Mean Aerodynamic Chord, In.	89.50	1.119

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: BODY FLAP - F_{14}

GENERAL DESCRIPTION: The orbiter body flap, for Conf. 5 "OML" is to be used with B_{64}. Hingeline @ X = 1532.0, Y = - 128.00. Baseline MCR 200 Rev. 7, dated 10/17/74.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, MD V-70

DIMENSIONS:

	FULL SCALE	MODEL SCALE
Area - Ft^2	135.75	0.021
Span (equivalent), In.	238.00	3.017
Inb'd equivalent chord, In.	81.00	1.013
Outb'd equivalent chord, In.	81.0	1.013
Area Moment (MAC X TOTAL AREA), Ft^3	916.313	0.0018
Mean Aerodynamic Chord, In.	81.0	1.0125

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: FEEDLINE - FL_{12}

GENERAL DESCRIPTION: LO_2 feedline on upper right-hand of tank.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading Edge at: (Centerline)	X_T	1000.667	12.508
	Y_T	70.00	0.875
	Z_T	554.66	6.933
Trailing edge at: (Centerline)	X_T	2071.50	25.894
	Y_T	70.0	0.875
	Z_T	564.33	7.054
Line diameter, In. (17.00 I.D.)		18.16 O.D.	0.227 (OD)

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: FEEDLINE - FL_{13}

GENERAL DESCRIPTION: LH_2 feedline between ET and orbiter

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at: (Centerline)	X_T	2071.50	25.894
	Y_T	- 70.0	- 0.875
	Z_T	604.056	7.551
Trailing edge at: (Centerline)	X_T	2080.14	26.002
	Y_T	- 55.21	- 0.690
	Z_T	550.36	6.880
Line diameter, In. (17.00 I.D.)		18.16 O.D.	0.227 (O.D.)

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: AFT ATTACH STRUCTURE FAIRING - FR_{13}

GENERAL DESCRIPTION: Aft orbiter/ET attach structure cross beam

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C, 82600209023

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge Centerline at:	X_T	2035.31	25.441
	Y_T	0.0	0.0
	Z_T	587.95	7.349
Maximum Length, In.		179.7	2.246
Width at Y_T 0.0, In.		15.38	0.192
Thickness at Y 0.0, In.		14.50	0.181

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: OMS PODS (OML) - M_{19}

GENERAL DESCRIPTION: Orbital maneuvering system pod. Short pod for orbiter 102/vehicle 5, MCR 1750 R1 baseline. Same lines as M18 (Rev. 11/11/75) but modified to match M_{21} OMS pod dimensions.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A, VL70-008410, MD-V70

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length, In., including RCS package (X_o 1311 to X_o 1569.64), In.	258.64	3.233
Length (X_o 1311 to X_o 1511), In.	200.0	2.50
Max Width (X_p 304, X_p 1511), In.	135.546	1.694
Max Depth (X_p 304, X_p 1511), In.	74.36	0.930
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional @ X_p = 304	59.091	0.00096

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: OMS PODS (OML) - M_{20}

GENERAL DESCRIPTION: Orbital maneuvering system pod, short pod for orbiter 102/vehicle 5, MCR 1750 M1 baseline. Same lines as M18 (Rev. 11/11/75), but modified for nonmetric RCS. Pod is nonmetric aft of X_o 18.590 (model scale).

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A, VL70-008410, MD-V70

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length, In., including RCS package (X_o 1311 to X_o 1569.64), In.	258.64	3.233
Length (X_o 1311 to X_o 1511), In.	200.0	2.50
Max Width (X_p 304, X_p 1511), In.	135.546	1.694
Max Depth (X_p 304, X_p 1511), In.	74.36	0.930
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional @ X_p = 304	59.091	0.00096

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: OMS PODS (OML) - M_{21}

GENERAL DESCRIPTION: Orbital maneuvering system pod. Short pod for orbiter 102/vehicle 5, MCR 1750 R1 baseline. Same lines as M18 (Rev. 11/11/75), but OML changed to accommodate plumbing for RCS air system.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A, VL70-008410, MD-V70

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length, In., including RCS (Package X_o 1311 to X_o 1569.64), IN.	258.64	3.233
Length (X_o 1311 to X_o 1511), In.	200.0	2.50
Max Width (X_p = 304, X_p 1511), In.	135.546	1.694
Max Depth (X_o 304, X_o 1511), In.	74.36	0.930
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional @ X_p = 304	59.091	0.00096

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: MPS NOZZLES - N_{94}

GENERAL DESCRIPTION: The main propulsion nozzles are laval-bell shaped and are located on the aft planes of the orbiter. These dimensions are external and are not to be scaled for plume tests.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, VL70-008144, RS009169, RS009107, 13M15000

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	157.0	1.963
Throat to Exit Plane		
Diameter - In.		
Exit	97.914	1.224
Throat		
Inlet		
Area - $Ft.^2$		
Exit	52.290	0.008
Throat		
Gimbal Point (Station) - In.		
Upper Nozzle		
X_o	1445.00	18.063
Y_o	0	0
Z_o	443.0	5.538
Lower Nozzles		
X_o	1468.170	18.352
Y_o	53.0	0.663
Z_o	342.640	4.283
Null Position - Deg.		
Upper Nozzle		
Pitch	16.0	16.0
Yaw	0.0	0.0
Lower Nozzle		
Pitch	10.0	10.0
Yaw	3.5	3.5

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: NOZZLE - N_{95}

GENERAL DESCRIPTION: Forward RCS thruster nozzles in nose of orbiter 102.

MODEL SCALE: 0.0125 DRAWING NUMBER: VC70-000002, FL70-008725, VL70-008726

DIMENSIONS:		FULL SCALE	MODEL SCALE
Nozzle Length, In. (Centerline, base to OML pierce point:)			
Forward-Firing thruster No.	122	24.779	0.3098
	112	25.022	0.313
	132	25.022	0.313
Up-Firing thruster No.	125	15.290	0.191
	115	15.595	0.195
	135	15.595	0.195
Down-Firing thruster No.	116	25.574	0.3196
	136	23.395	0.292
	126	23.395	0.292
	146	23.395	0.292
Upper yaw thruster No.	113	15.945	0.199
	134	15.945	0.199
Lower yaw thruster No.	123	15.154	0.189
	144	15.154	0.189
Diameter, In.			
Exit		10.894	0.136
Throat		2.042	0.030
Inlet		3.92	0.049
Area, Ft^2			
Exit		0.6473	0.00010
Throat		0.0227	0.0000035
Area Ratio		28.5	0.356
Nozzle Location (Centerline Pierce Point at OML):			

TABLE III. MODEL DIMENSIONAL DATA (Continued)

NOZZLE - N_{95}

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DIMENSIONS:			FULL SCALE	MODEL SCALE
Forward-Firing Thruster No.	122	X_o	305.201	3.815
		Y_o	0.0	0.0
		Z_o	394.350	4.929
	112	X_o	305.443	3.818
		Y_o	- 14.00	- 0.175
		Z_o	392.950	4.911
	132	X_o	305.443	3.818
		Y_o	14.00	0.175
		Z_o	392.950	4.911
Up-Firing Thruster No.	125	X_o	351.044	4.388
		Y_o	0.0	0.0
		Z_o	414.450	5.1506
	115	X_o	351.062	4.388
		Y_o	- 14.091	- 0.176
		Z_o	413.465	5.168
	135	X_o	351.062	4.388
		Y_o	14.091	0.176
		Z_o	413.465	5.168
Down-Firing Thruster No.	116	X_o	333.900	4.174
		Y_o	- 62.931	- 0.787
		Z_o	354.675	4.433
	136	X_o	333.900	4.174
		Y_o	+ 62.931	+ 0.787
		Z_o	354.675	4.433
	126	X_o	348.500	4.356
		Y_o	- 67.180	- 0.839
		Z_o	356.915	4.462
	146	X_o	348.500	4.356
		Y_o	67.180	0.839
		Z_o	356.915	4.462

TABLE III. MODEL DIMENSIONAL DATA (Continued)

NOZZLE - N_{95}

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DIMENSIONS:			FULL SCALE	MODEL SCALE
Upper Yaw Thruster, No.	113	X_o	362.819	4.535
		Y_o	- 69.539	- 0.869
		Z_o	373.634	4.670
	134	X_o	362.819	4.535
		Y_o	69.539	0.869
		Z_o	373.634	4.670
Lower Yaw Thruster, No.	123	X_o	364.814	4.560
		Y_o	- 71.484	- 1.094
		Z_o	359.500	4.494
	144	X_o	364.814	4.560
		Y_o	71.484	1.094
		Z_o	359.500	4.494

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: RCS NOZZLES - N_{96} (L.H.), N_{97} (R.H.)

GENERAL DESCRIPTION: Aft RCS thrusters, orbiter 102 (data listed are for one of two sides).

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002A, MDC 73J3210O1A, BCD V70-30-915-09

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length, In.		
Overall	18.63	0.233
Mounting surface to exit plane	12.88	0.160
Diameter, In.		
Exit	10.50	0.131
Inlet	5.34	0.067
Exit Area, Ft^2	0.6013	0.00009
Yaw Thrusters - Exit Plane Φ		
Forward nozzle, X_o	1516.00	18.950
2nd nozzle, X_o	1529.00	19.110
3rd nozzle, X_o	1542.00	19.270
Aft nozzle, X_o	1555.00	19.430
Scarf angle	16°20'	16°20'
Pitch Up Thrusters - Exit Plane Φ		
Forward nozzle, X_o	1516.00	18.950
Middle nozzle, X_o	1529.00	19.110
Aft nozzle, X_o	1542.00	19.270
Y_o	132.00	1.650
Z_o	493.38	6.167

TABLE III. MODEL DIMENSIONAL DATA (Continued)

RCS NOZZLES, N_{96} and N_{97}

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DIMENSIONS:	FULL SCALE	MODEL SCALE
Pitch Down Thrusters - Mounting Surface ℄		
Forward nozzle		
X_o	1516.00	18.950
Y_o	110.055	1.376
Z_o	437.403	5.468
Middle nozzle		
X_o	1529.00	19.110
Y_o	111.00	1.387
Z_o	440.00	5.500
Aft nozzle		
X_o	1542.00	19.270
Y_o	111.945	1.399
Z_o	442.597	5.532
Nozzle cant angle (Typ.)	12 Deg.	12 Deg.
Aft firing thrusters - Mounting Surface ℄		
Inboard nozzle		
X_o	1557.46	19.467
Y_o	124.00	1.550
Z_o	473.44	5.918
Outboard nozzle		
X_o	1557.46	19.467
Y_o	137.00	1.713
Z_o	473.44	5.918
Nozzle cant angle (Typ.)	10 Deg.	10 Deg.

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{29}

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward section of tank.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	349.00	4.363
	Y_T	5.90	0.074
	Z_T	409.5	5.119
Trailing edge at:	X_T	860.8	10.760
	Y_T	96.13	1.202
	Z_T	537.29	6.716
Conduit size, In.		2 x 6	0.025 x 0.075

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{30}

GENERAL DESCRIPTION: Electrical conduit on upper right-hand quadrant of tank (aft of intertank external stringer section). Includes LO_2 antigeyser line and LO_2 pressure line.

MODEL SCALE: 0.0125

DRAWING NO.: VC78-000002C

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1114.0	13.925
	Y_T	100.29	1.254
	Z_T	534.28	6.679
Trailing edge at:	X_T	2046.0	25.575
	Y_T	100.29	1.254
	Z_T	534.28	6.679
Conduit size, In.		2 x 10	0.025 x 0.125

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{33}

GENERAL DESCRIPTION: LH_2 pressure line on external tank.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1058.0	13.225
	Y_T	- 85.185	- 1.0648
	Z_T	547.54	6.844
Trailing edge at:	X_T	2083.88	26.049
	Y_T	- 80.92	- 1.012
	Z_T	547.54	6.844
Line diameter, In.		2.00	0.025

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{35}

GENERAL DESCRIPTION: Forward ET/SRB attach fitting, tank side only, data listed for one of two sides.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C, VC72-000012, VC72-000002E

DIMENSIONS:		FULL SCALE	MODEL SCALE
Centerline of attach pin	X_T	985.70	12.321
	Y_T	172.5	2.156
	Z_T	400.0	5.00
	X_B	442.7	5.534
	Y_B	78.0	0.975
	Z_B	0.0	0.0
Length, In.		15.25	0.191
Width, In.		11.5	0.144
Depth, In.		12.0	0.150

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{36}

GENERAL DESCRIPTION: Aft lower ET/SRB attach fitting, tank side only. Data given for one side only.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C, VC72-000002E, 82600209086

DIMENSIONS:		FULL SCALE	MODEL SCALE
Centerline of attach bolt hole	X_T	2058.0	25.725
	Y_T	161.75	2.022
	Z_T	343.0	4.288
Length, In.		18.75	0.234
Width, In.		6.50	0.082
Maximum height, In. (from ET OSL)		10.35	0.129

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK PROTUBERANCE - PT_{37}

GENERAL DESCRIPTION: Aft upper ET/SRB attach fitting for cross and diagonal struts. Data listed for tank side; one side only.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002C, VC72-000002E, 82600209081

DIMENSIONS:		FULL SCALE	MODEL SCALE
Centerline of cross strut bolt hole	X_T	2058.00	25.725
	Y_T	161.75	2.022
	Z_T	457.00	5.713
Centerline of diagonal strut bolt hole	X_T	2058.00	25.725
	Y_T	163.91	2.049
	Z_T	449.82	5.623
Length, In.		26.00	0.325
Maximum width, In.		7.00	0.087
Maximum height, In. (from OSL)		10.00	0.125

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: EXTERNAL TANK - T_{33}

GENERAL DESCRIPTION: External tank with spike nose. Dimensions are calculated to the outer mold line (OML)

MODEL SCALE: 0.0125

DRAWING NUMBER: VC78-000002B, Spike Nose Dwg. No.: 82600203049

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	1852.486	23.156
Max. Dia. (OML), In.	333.00	4.163
Max Depth		
Fineness Ratio	5.563	5.563
Area - Ft^2		
Max. Cross-Sectional	604.807	0.094

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: UMBILICAL DOORS - U_1

GENERAL DESCRIPTION: Orbiter/ET umbilical/attach doors. Rectangular doors in lower surface of orbiter to accommodate LO_2 and LH_2 feedlines. Data are listed for one of two sides.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC72-000002E, VC70-000002A, VC72-000010A, VC70-355102

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length, In. (X_o 1311 to X_o 1361.5)	50.50	0.631
Width, In. (Y_o 52.90 to Y_o 103.09)	50.19	0.627
Planform Area - Ft^2	17.6	0.0028
Forward Hinge and Linkage, X_T	1315.75	16.447
Aft Hinge and Linkage, X_T	1356.75	16.959

TABLE III. MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: VERTICAL - V_{23} (Outer Mold Lines)

GENERAL DESCRIPTION: The vertical tail is double-wedge shaped and mounted dorsally on the aft fuselage. These data correspond to configuration 140C.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, master dimensions

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2		
Planform	413.253	0.065
Span (Theo) - In.	315.72	3.947
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	3.356
Tip (Theo) WP	108.47	1.356
MAC	199.81	2.498
Fus. Sta. of .25 MAC	1463.50	18.294
W.P. of .25 MAC	635.52	7.944
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.0	10.0
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.00	0.0250
Void Area	13.17	0.0002
Blanketed Area	0.0	0.0

TABLE III. MODEL DIMENSIONAL DATA (Concluded)

MODEL COMPONENT: WING - W_{129}

GENERAL DESCRIPTION: The wing is the primary lifting device and is mounted horizontally and is symmetric about the plane $Y_o = 0$. A cuff fairs the fuselage to the wing's leading edge at $T_o = 940$ to X_o 1084.

MODEL SCALE: 0.0125 DRAWING NUMBER: VC70-000024

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2		
Planform	2690.00	0.420
Span (Theo) In.	936.68	11.709
Aspect Ratio	2.265	2.265
Rate of Taper	1.773	1.773
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Sweep Back Angles, degrees		
Leading Edge	45.0	45.0
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.243	8.616
Tip, (Theo) B.P.	137.849	1.723
MAC	474.812	5.935
Fus. Sta. of .25 MAC	1136.834	14.210
W.P. of .25 MAC	290.857	3.636
B.L. of .25 MAC	182.132	2.277
EXPOSED DATA		
Area (Theo) Ft^2	1751.50	0.274
Span, (Theo) in. BP108	720.68	9.009
Aspect Ratio	2.060	2.060
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.090	7.026
Tip 1.00 b/2	137.849	1.723
MAC	392.826	4.910
Fus. Sta. of .25 MAC	1186.50	14.831
W.P. of .25 MAC	293.683	3.671
B.L. of .25 MAC	251.769	3.147
Airfoil Section (Rockwell Mod NASA)XXXX-64		
Root b/2 =	0.114	0.114
Tip b/2 =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft^2	145.4	0.0227
Leading Edge Intersects Fus M. L. @ Sta.	400.0	6.250
Leading Edge Intersects Wing @ Sta.	1024.0	12.800

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

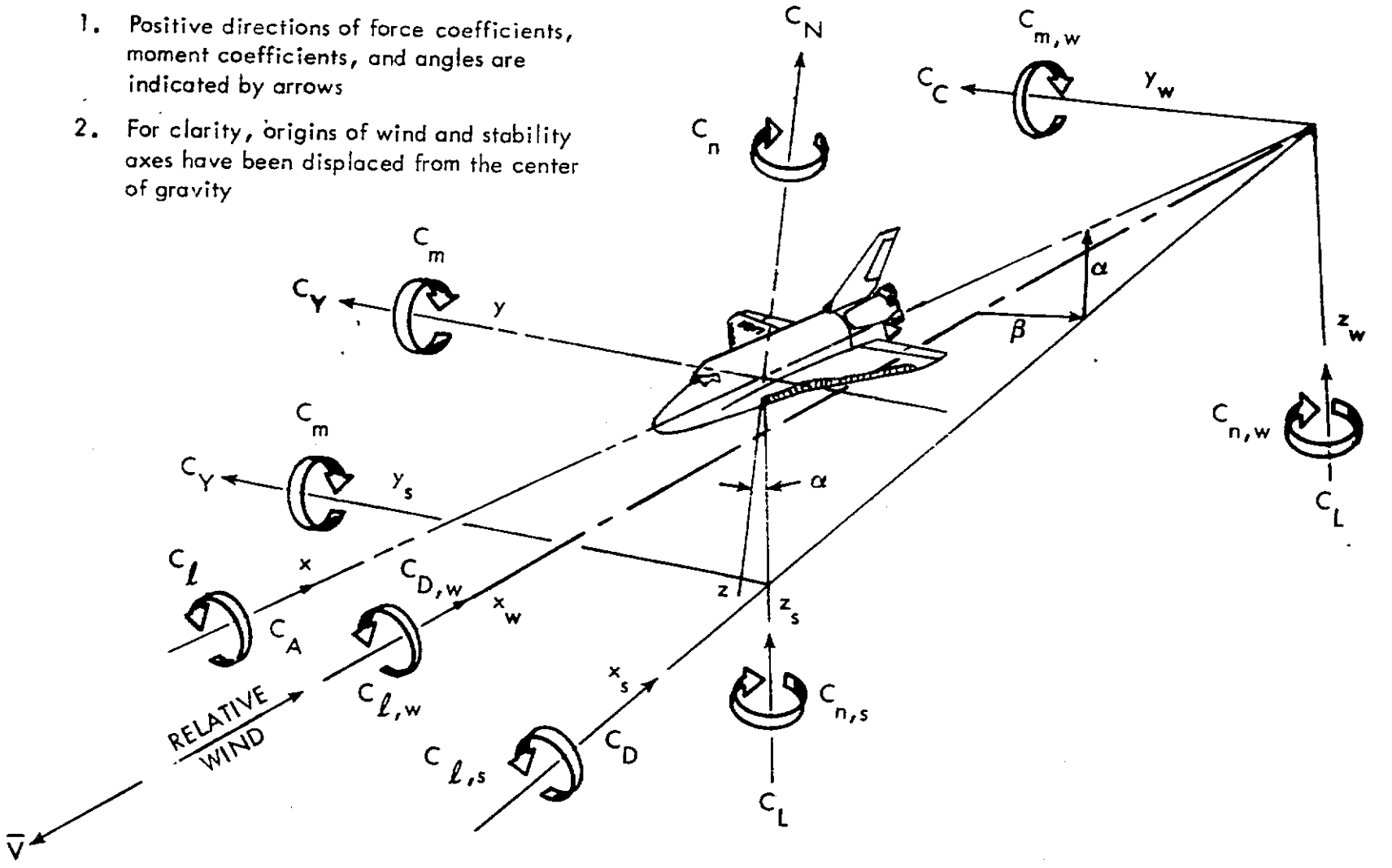
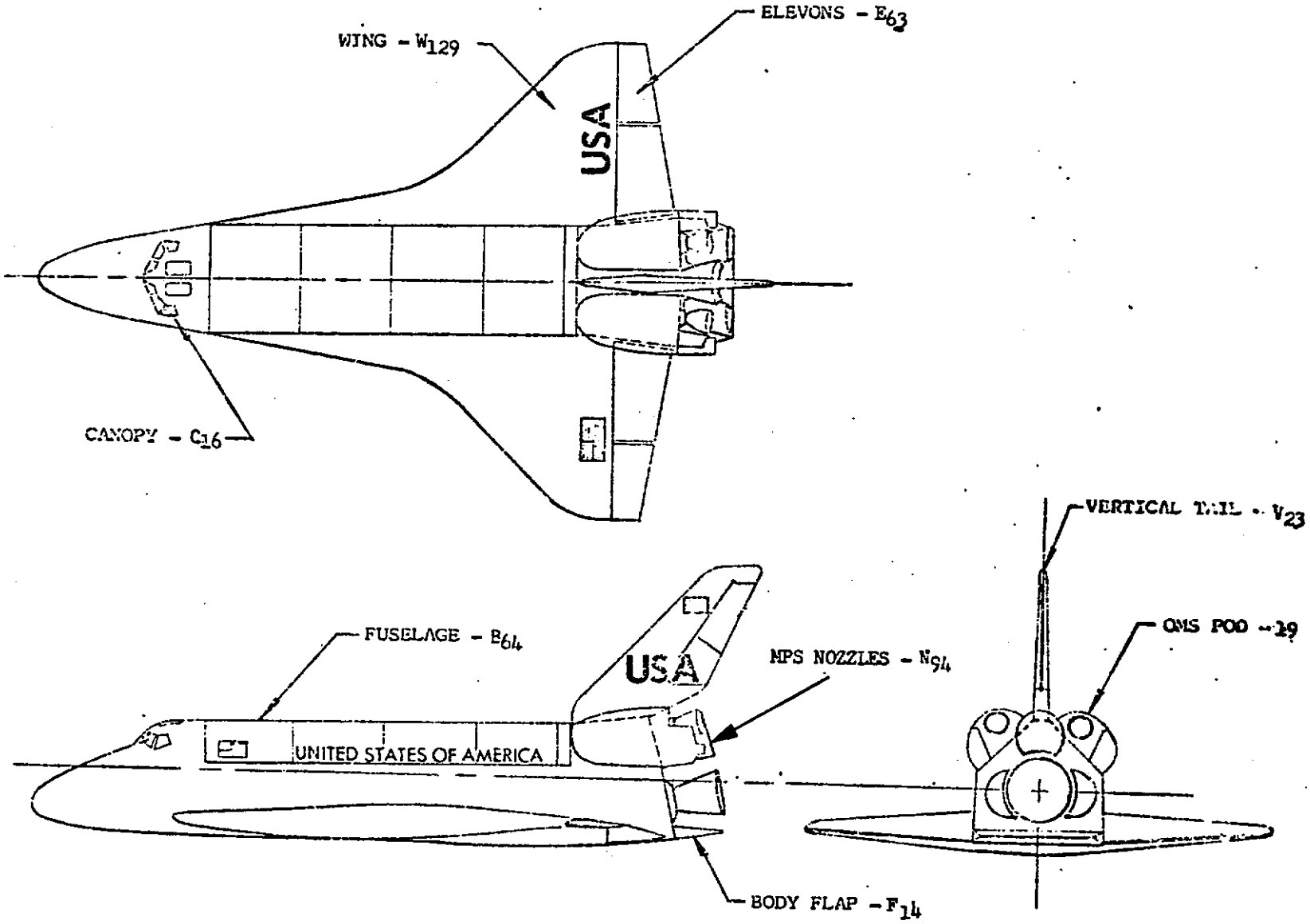
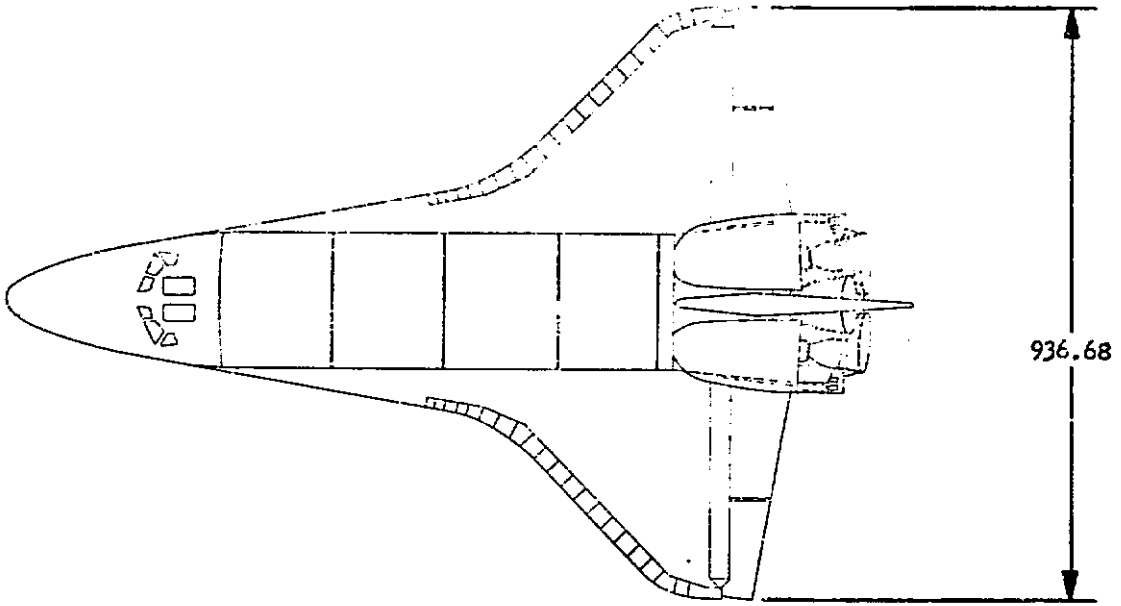


Figure 1. Axis systems.



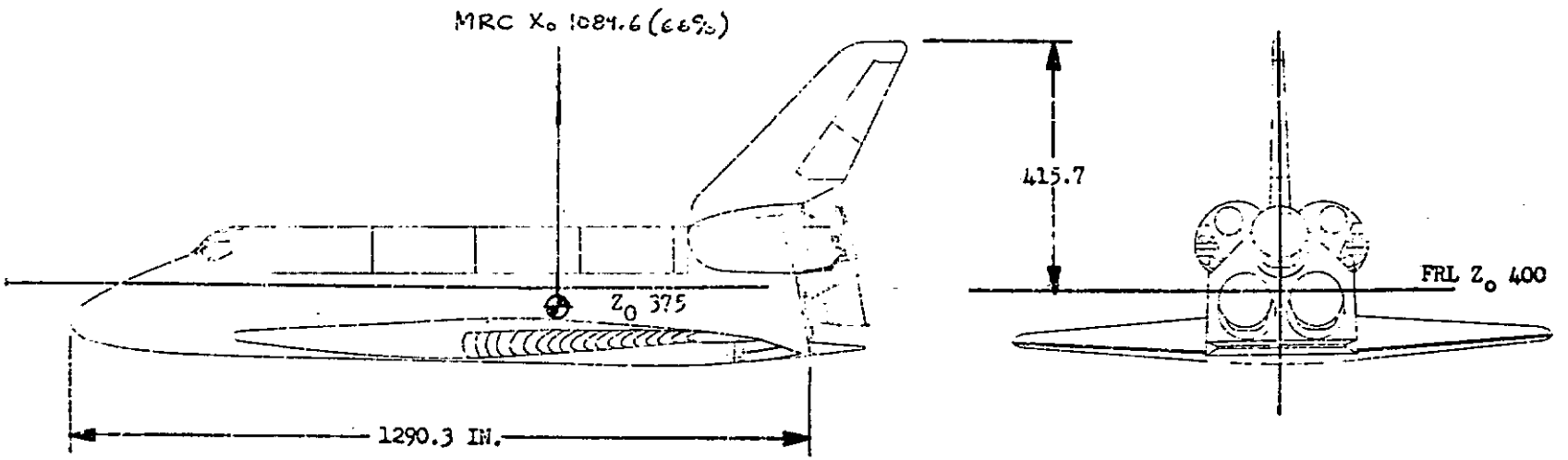
a. SSV Orbiter Configuration Diagram

Figure 2. Model sketches.

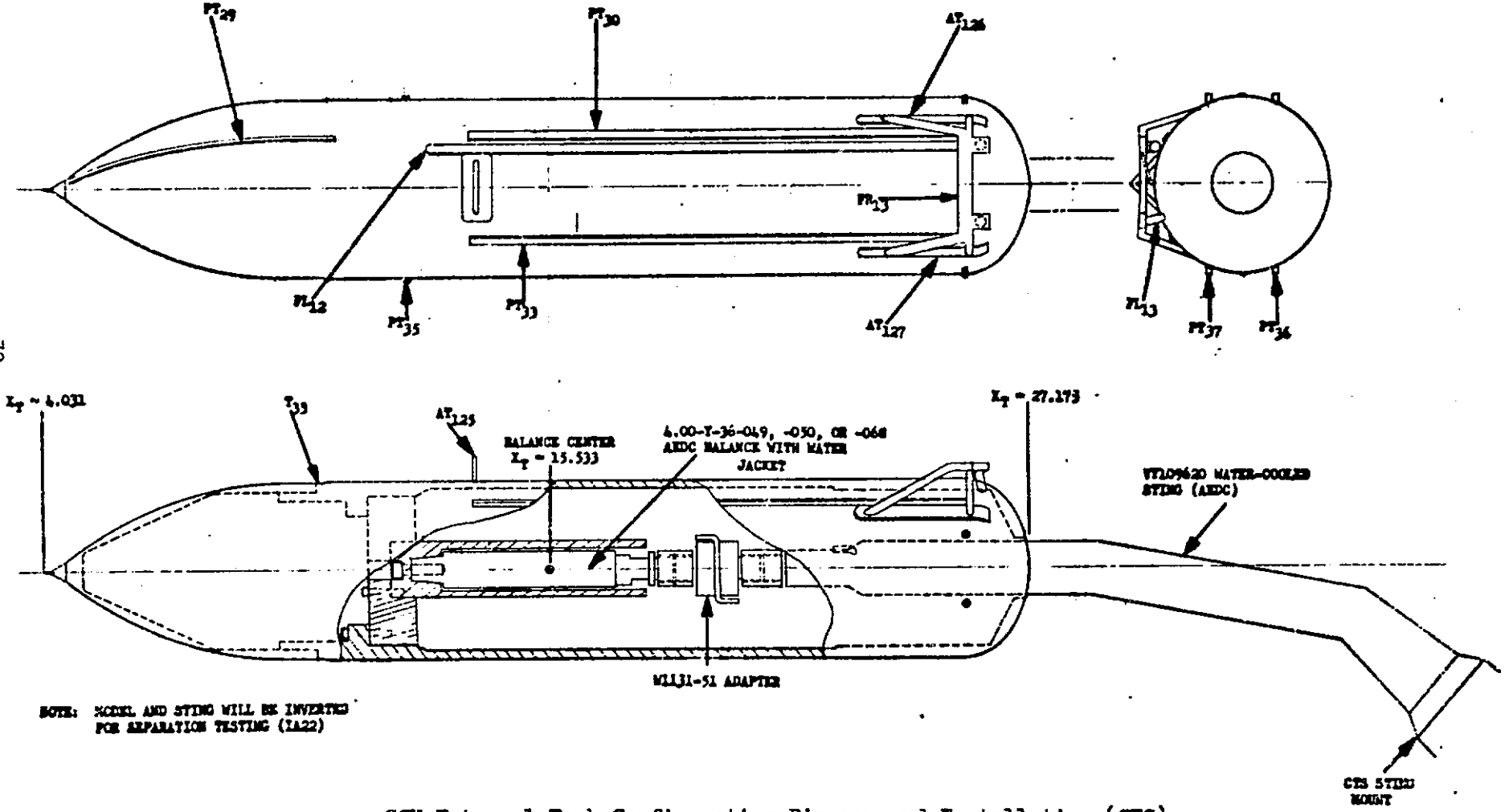


REFERENCE DIMENSIONS
FULL SCALE

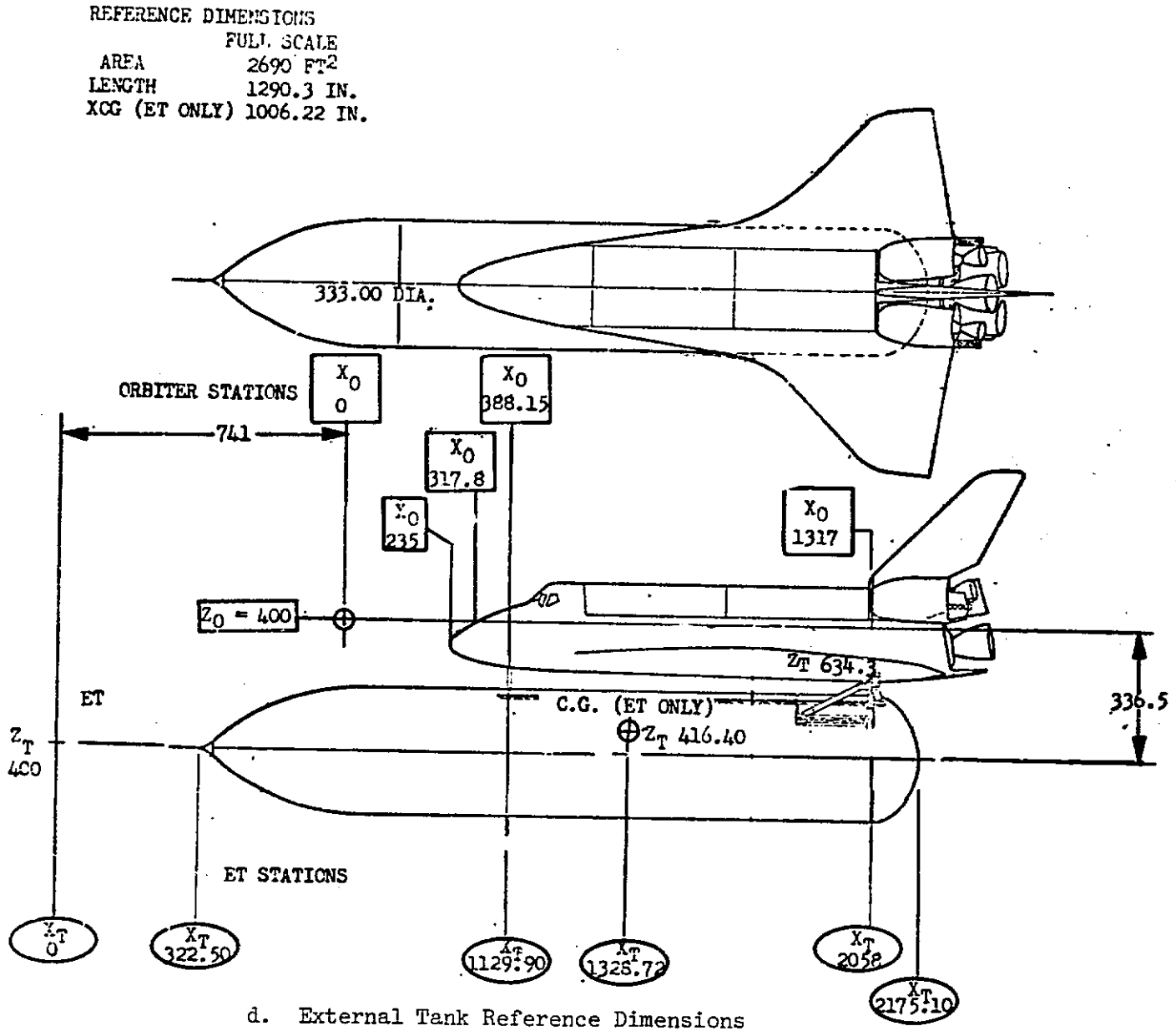
AREA	2690.0 FT^2
LENGTH	1290.3 IN.
XCG (66%)	854.59



b. SSV Orbiter Vehicle 102 Reference Dimensions
Figure 2. Continued.

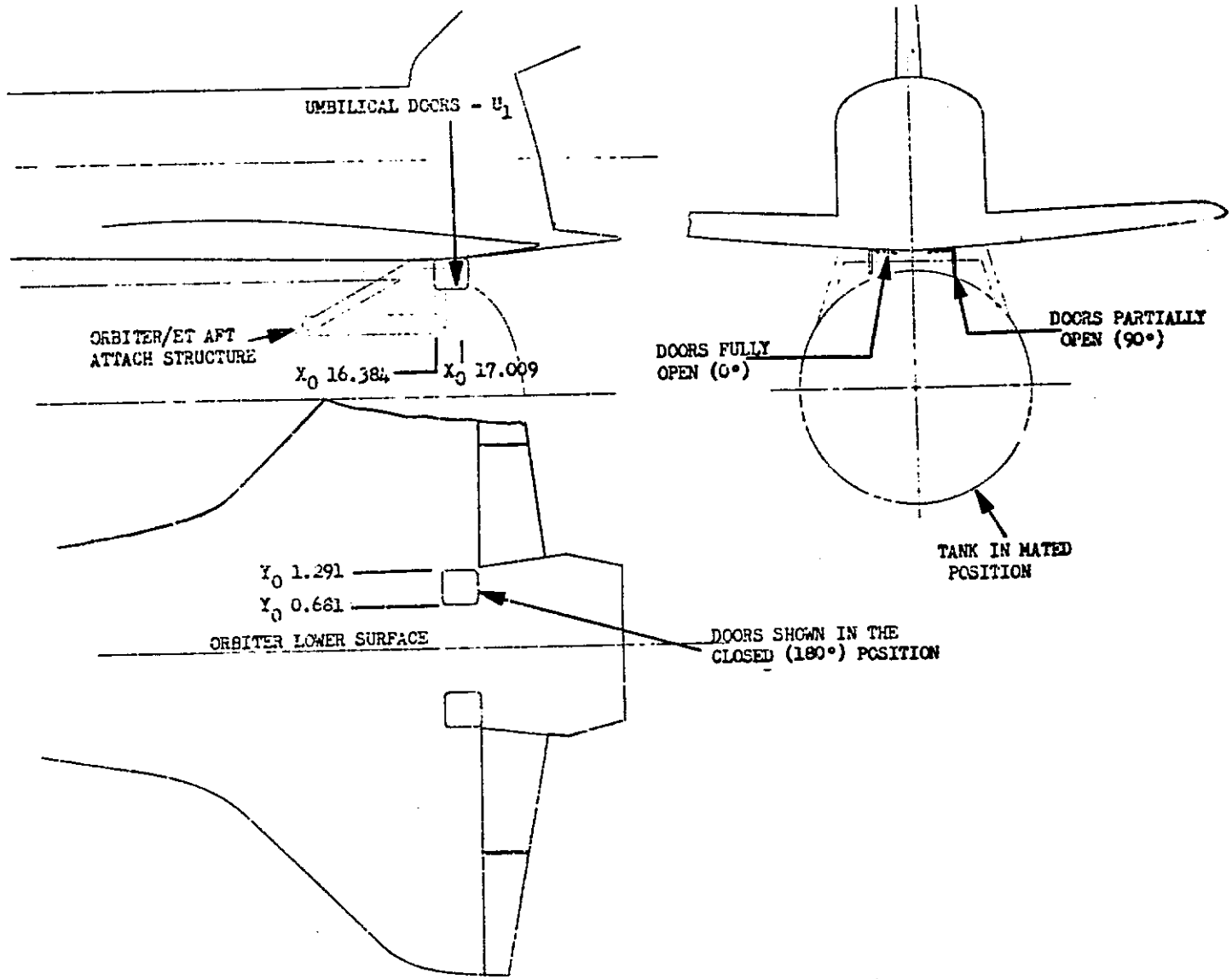


c. SSV External Tank Configuration Diagram and Installation (CTS)
Figure 2. Continued.

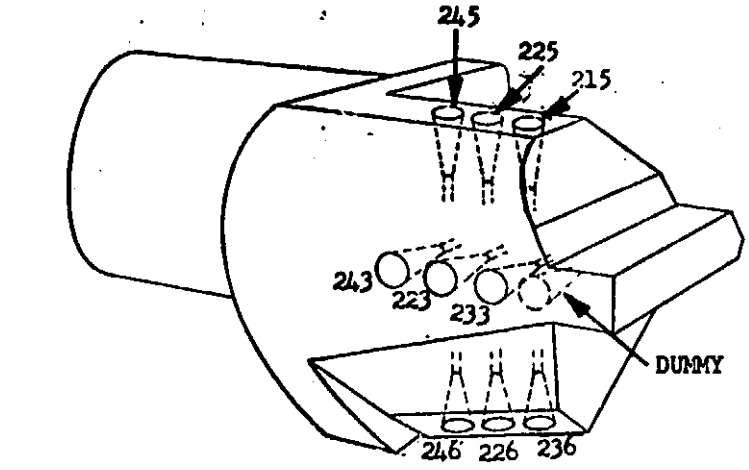


d. External Tank Reference Dimensions

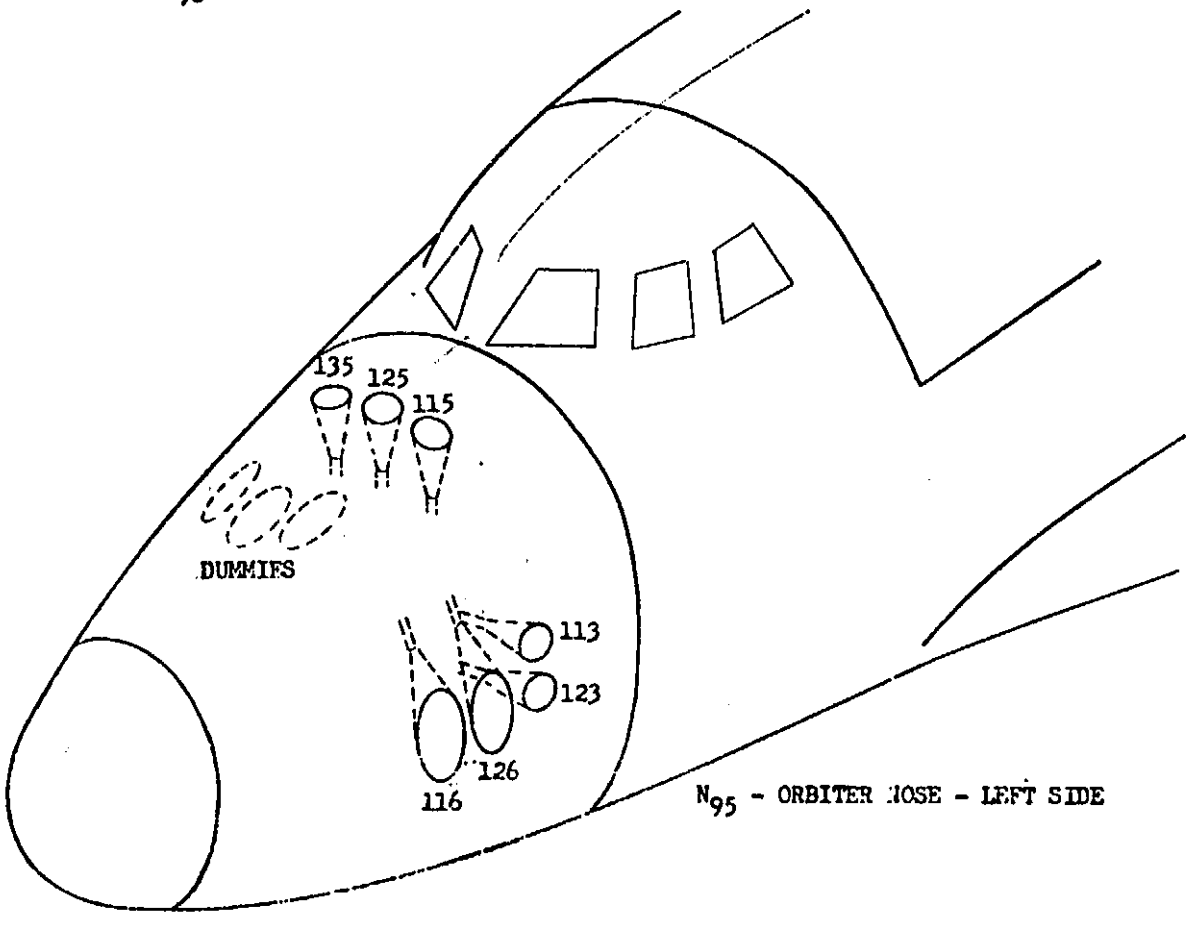
Figure 2. Continued.



e. Orbiter Umbilical Door Configuration
Figure 2. Continued.

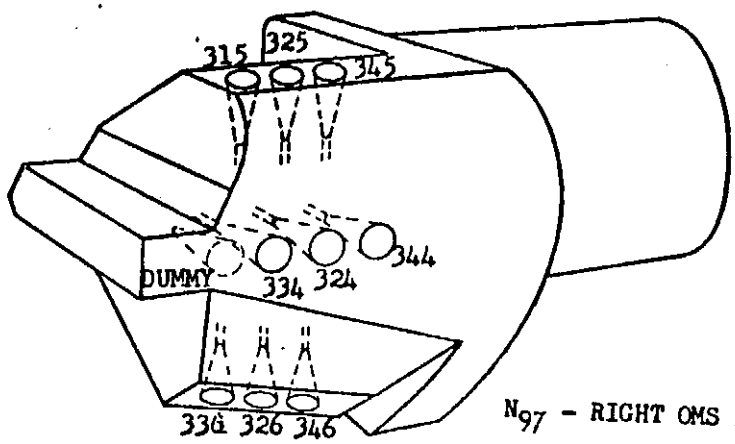


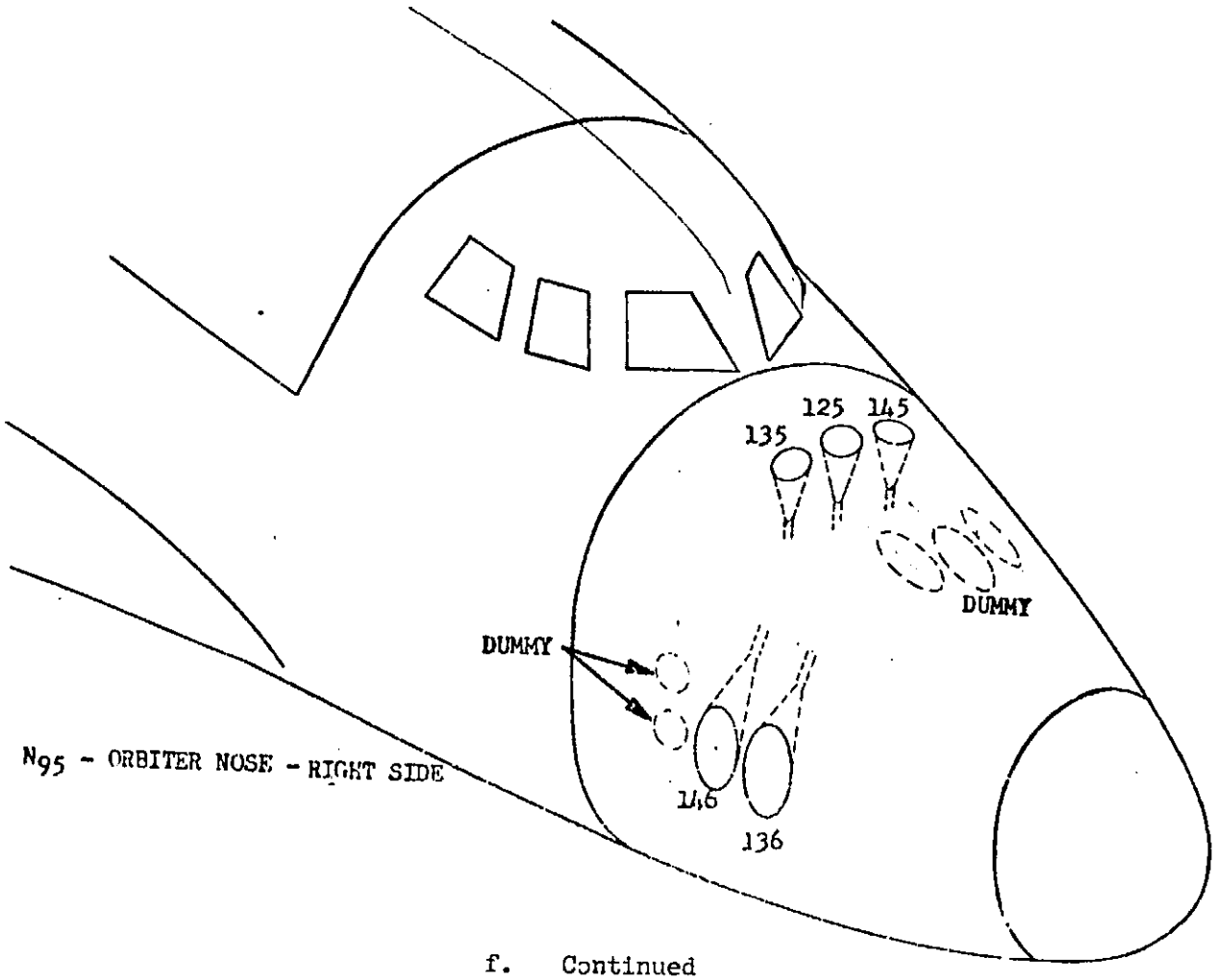
N_{96} - LEFT OMS POD



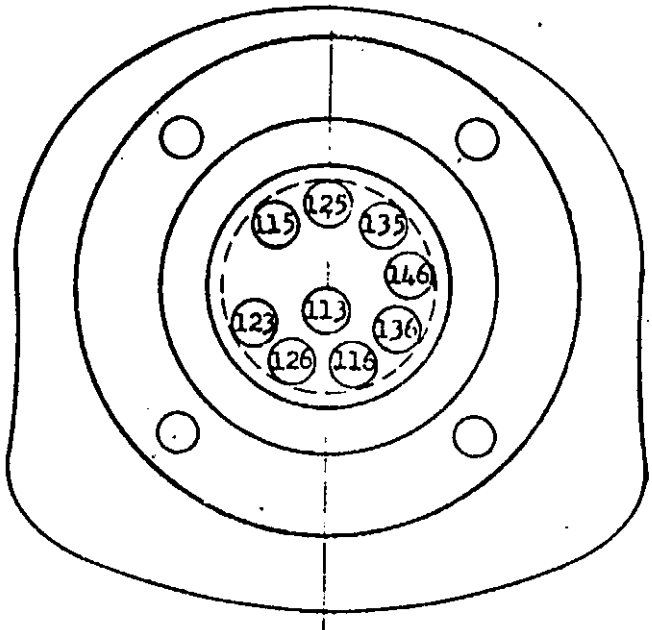
N_{95} - ORBITER NOSE - LEFT SIDE

f. RCS Thruster Configuration
Figure 2. Continued.



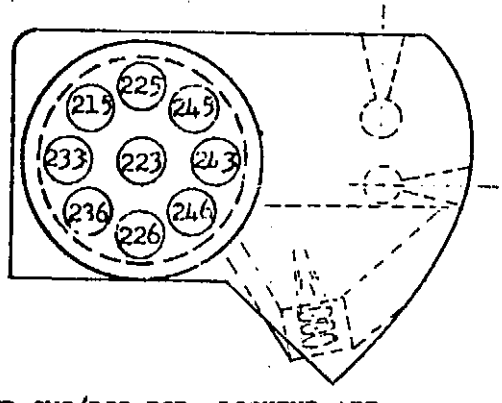


f. Continued
Figure 2. Continued.



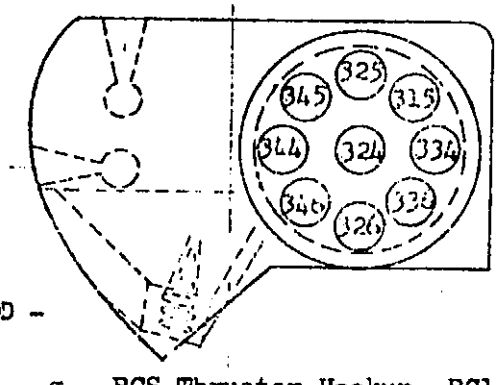
N_{95}

NOSE - LOOKING FORWARD



N_{96}

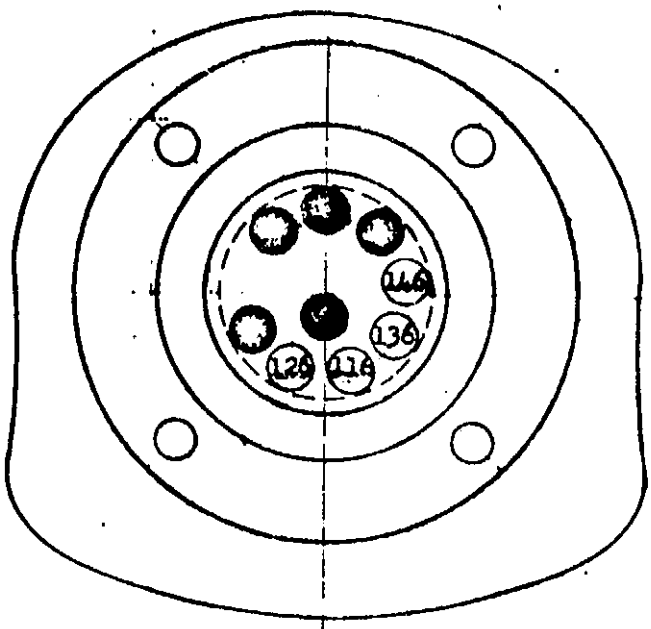
LEFT-HAND OMS/RCS POD--LOOKING AFT



N_{97}

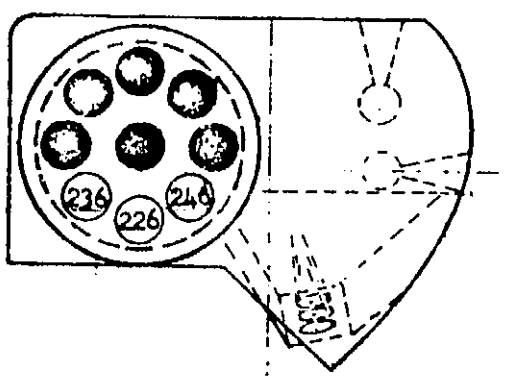
RIGHT-HAND OMS/RCS POD - LOOKING AFT

g. RCS Thruster Hookup- RC1, RC2 and RC3
Figure 2. Continued.



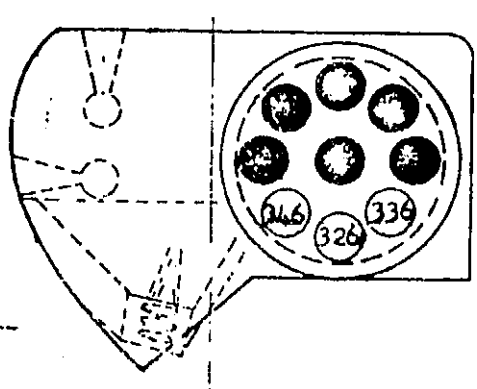
N95

NOSE - LOOKING FORWARD



N96

LEFT-HAND OMS/RCS POD--LOOKING AFT



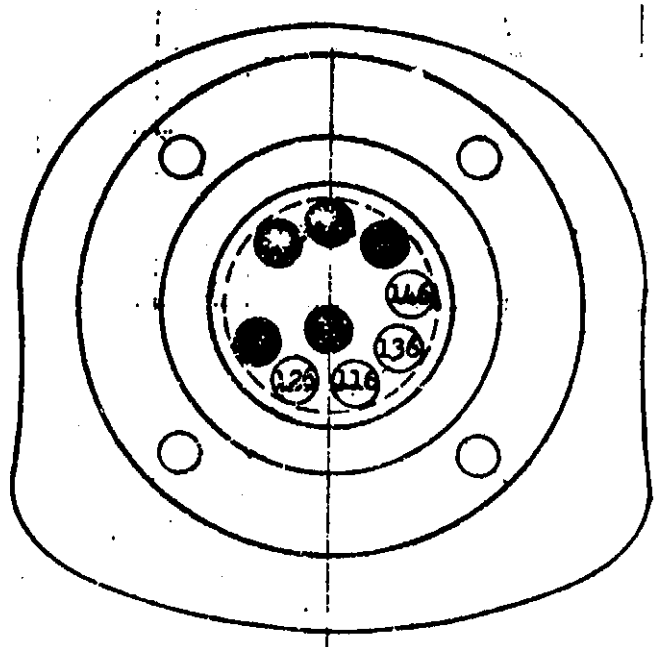
N97

RIGHT-HAND OMS/RCS POD--

LOOKING AFT

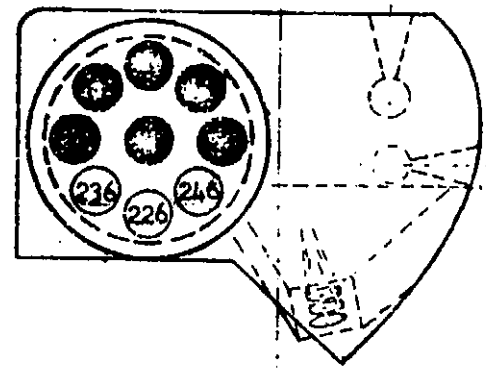
RCS Thruster Hook-up--RCl.

g. Continued
Figure 2. Continued.



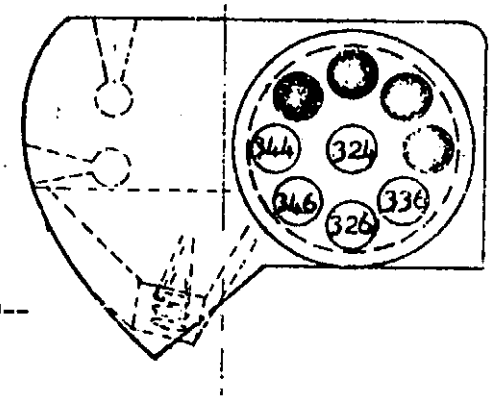
N95

NOSE - LOOKING FORWARD



N96

LEFT-HAND OMS/RCS POD--LOOKING AFT

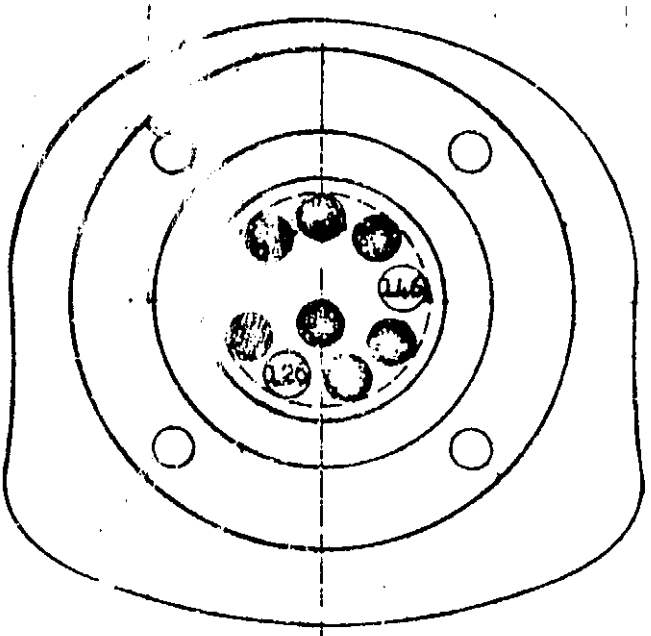


N97

RIGHT-HAND OMS/RCS POD--

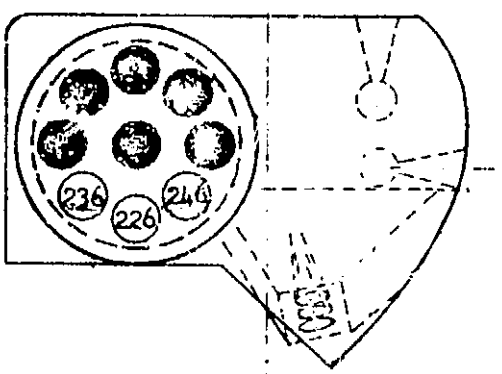
LOOKING AFT

RCS Thruster Hook-up--RC2
g. Continued
Figure 2. Continued.



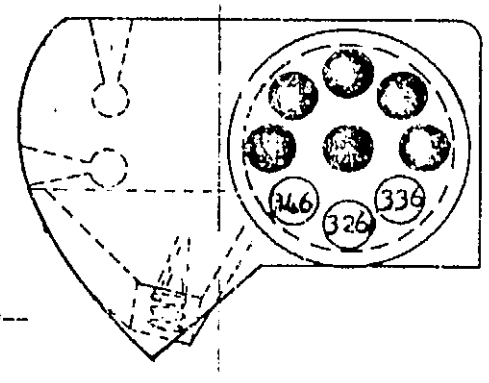
N95

NOSE - LOOKING FORWARD



N96

LEFT-HAND OMS/RCS POD--LOOKING AFT



N97

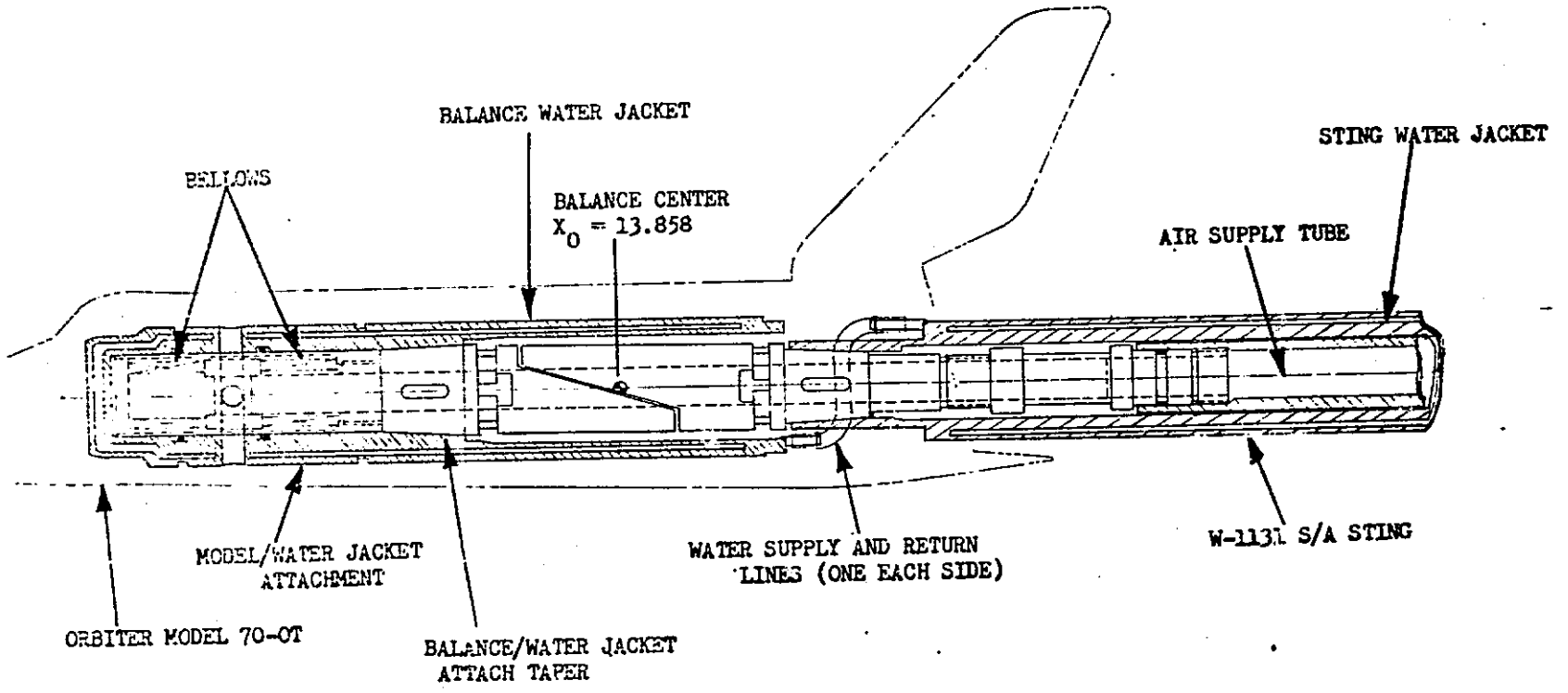
RIGHT-HAND OMS/RCS POD--

LOOKING AFT

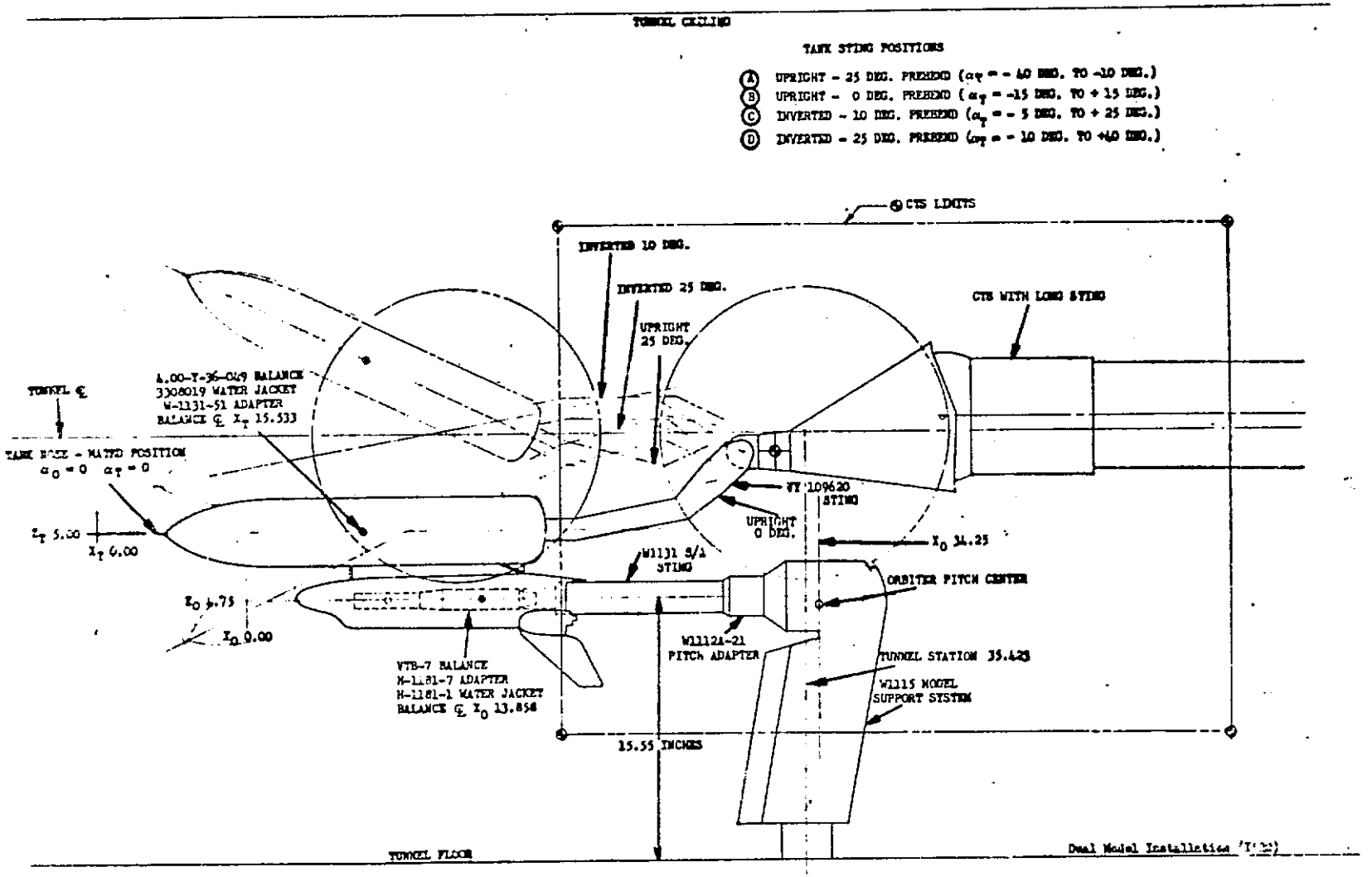
RCS Thruster Hook-up--RC3

g. Concluded.

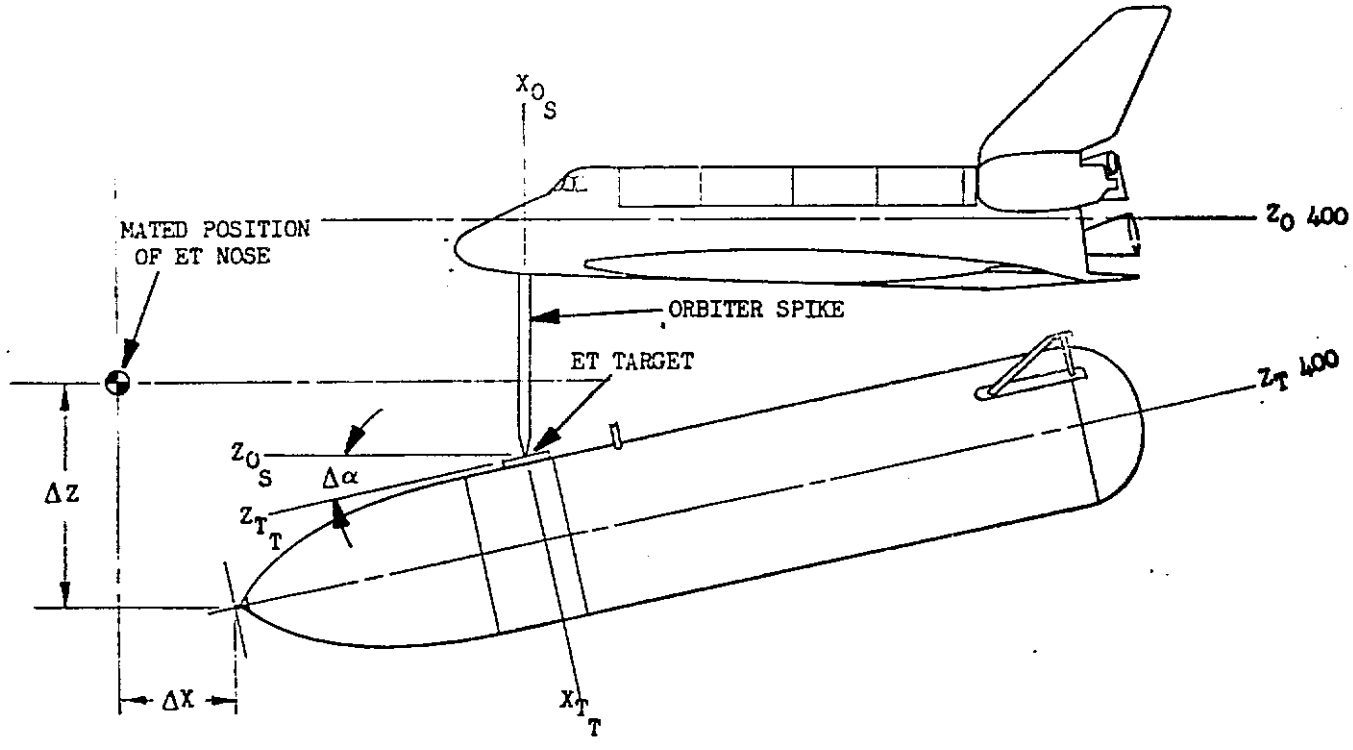
Figure 2. Continued.



h. VTB-7 Flow Through Balance Installation - Orbiter and O/ET
Figure 2. Continued.



f. Dual Model Installation (IA22)
Figure 2. Continued.



X_{O_S}, Z_{O_S} ARE ORBITER SPIKE COORDINATES

X_{T_T}, Z_{T_T} ARE ET TARGET COORDINATES

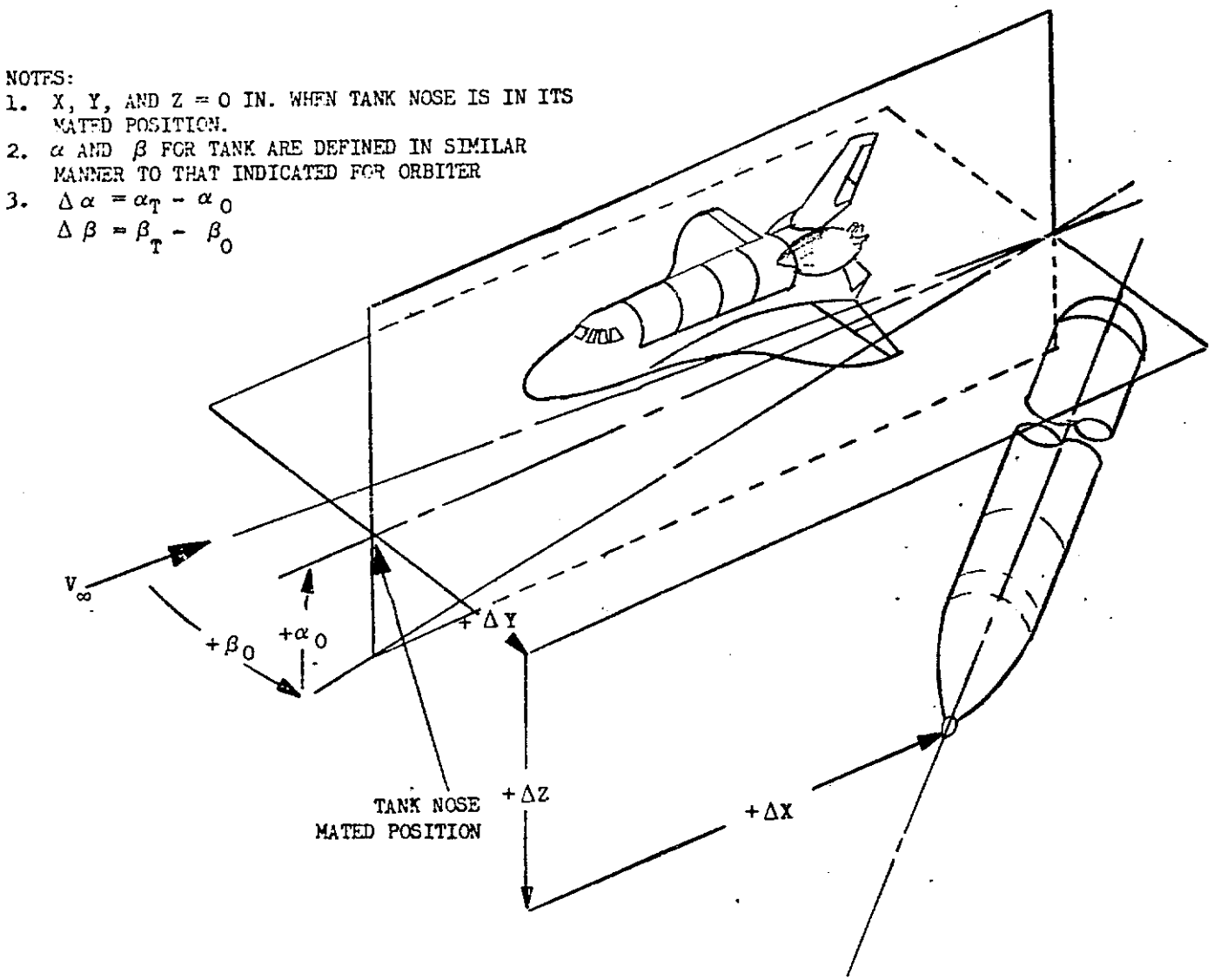
$$\Delta X = \Delta X_0 - \left(\Delta X_T - \Delta Z_T \tan\Delta\alpha\right)\cos\Delta\alpha$$

$$\Delta X = \Delta Z_0 + \Delta Z_T / \cos\Delta\alpha + \left(\Delta X_T - \Delta Z_T \tan\Delta\alpha\right)\sin\Delta\alpha - 336.5$$

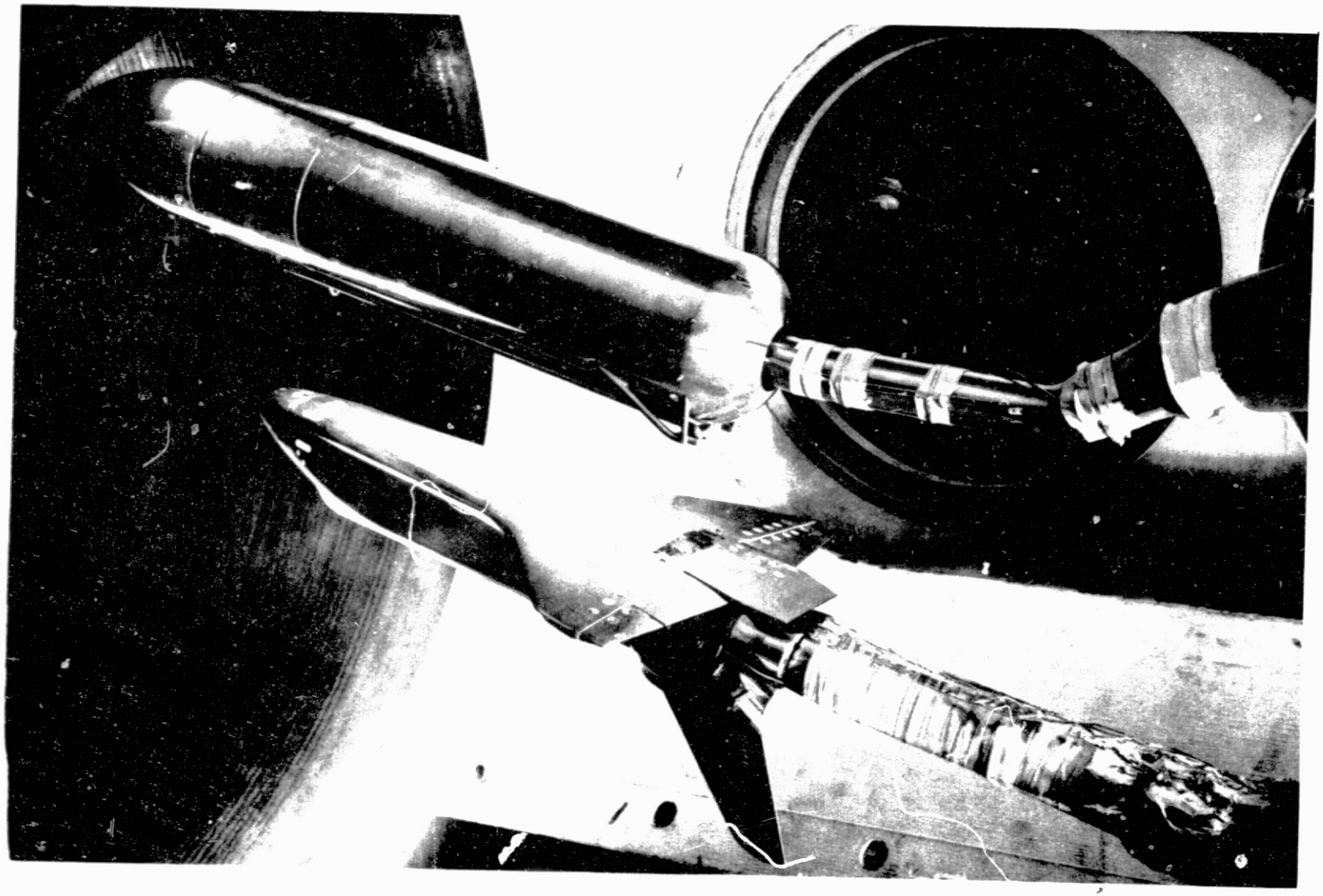
where $\Delta X_0 = X_{O_S} + 741 - 322.5$ $\qquad$ $\Delta X_T = X_{T_T} - 322.5$

$\Delta Z_0 = 400 - Z_{O_S}$ $\qquad$ $\Delta Z_T = Z_{T_T} - 400$

j. Captive Trajectory System Initial Conditions
Figure 2. Continued.

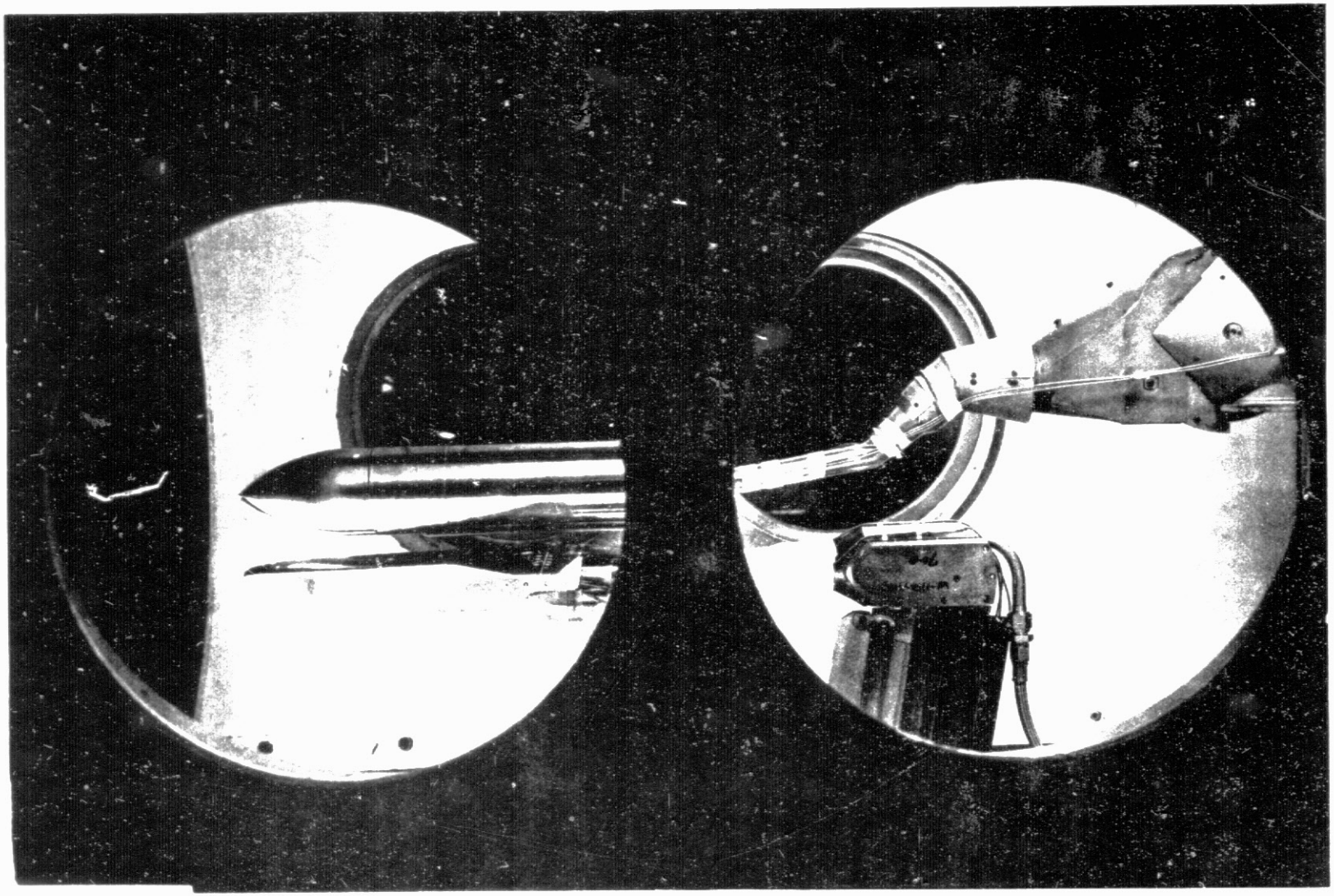


k. External Tank Separation from Orbiter
Figure 2. Concluded.



a. Orbiter/Tank Separation in Tunnel B

Figure 3. Model photographs.



b. Sting Arrangement with Orbiter and Tank Installed in Tunnel B
Figure 3. Concluded.

APPENDIX

TABULATED SOURCE DATA

VOLUME 2 (pages 1-530, datasets R, S, T, U, AVK001 through R, S, T, U, AVK081)

VOLUME 3 (pages 531-1144, datasets R, S, T, U, AVK082 through R, S, T, U, AVK175)

(1) **** denotes places where CHMD and CNFD data not available for T data.

(2) When the RCS was off (non-firing), U datasets are omitted.

(3) Zero values for CTFS, CTFU, CTAS, and CTAU in the T datasets denotes places where data not available.

V41B-D9A (IA22),ORBITER(O4RC1) W:ET SEPARATING (RVK001) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	HM
-19.989	624.770	-.28342	24872	.00607	.31772	-.01554	.00026	-.00027	.00426	.03009	.23416
-19.956	699.450	-.15935	.14199	.00649	.27823	-.02652	-.00209	-.00003	.00323	.03133	.23431
-19.928	799.970	-.27795	-.16571	.00122	.21991	-.03116	-.00309	.00011	.00130	.02078	.23455
-19.933	1000.100	.10517	.14564	.00417	.10052	-.02410	-.00577	.00058	-.00127	.01245	.23413
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	HM
-14.991	474.770	-.25876	-.12490	.00044	.29228	-.01511	.00067	.00029	.00322	.03083	.23202
-15.015	500.150	.02574	-.23149	.00059	.25972	-.01972	.00040	.00028	.00327	.03223	.23209
-14.934	549.670	-.00404	.07854	.00511	.23053	-.02692	-.00167	.00051	.00220	.03183	.23421
-14.970	599.620	.01570	.05489	.00337	.19325	-.02976	-.00230	.00049	.00213	.02379	.23475
-14.952	699.230	-.05481	.33935	.00945	.12110	-.02913	-.00045	.00081	.00090	.01484	.23451
-14.931	798.670	.00520	.12407	.00557	.09353	-.02824	.00012	.00093	.00025	.01536	.23462
-14.910	998.090	-.11842	.27700	.00935	.04037	-.01519	-.00274	.00121	.00051	.02594	.23493
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	HM
-10.000	324.690	-.05727	-.10170	.00310	.28353	-.01186	-.00041	.00017	.00352	.03128	.23535
-10.053	350.480	.16792	.13245	-.00204	.23500	-.01625	-.00135	.00038	.00249	.03208	.23501
-10.022	399.640	.14479	-.05533	.00249	.18151	-.02075	-.00206	.00073	.00170	.02835	.23459
-9.990	449.220	.18526	-.09429	.00285	.14848	-.02540	-.00210	.00073	.00108	.02283	.23483
-9.938	498.280	.10176	.30467	.00707	.11043	-.02659	-.00184	.00053	.00006	.01694	.23487
-9.935	533.640	.01618	.22833	.00708	.08277	-.02307	-.00130	.00083	-.00010	.01683	.23535
-9.949	699.650	.04536	.07617	.00748	.07537	-.02075	-.00269	.00111	.00106	.02111	.23531
-9.950	799.510	.07032	.23344	.00333	.05170	-.01546	-.00316	.00114	.00058	.02350	.23522
-10.083	1000.100	.30351	.17415	-.00080	-.00441	-.00591	-.00425	.00088	.00057	.02613	.23528
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK001) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.019	174.710	.10917	.36129	.00757	.18337	.00421	-.00138	.00002	.00208	.03625	.23619
-4.991	199.190	.14197	-.14418	-.00084	.18410	-.00389	-.00361	.00034	.00196	.03221	.23595
-5.026	249.590	.03969	.10102	.00177	.14620	-.01113	-.00337	.00057	.00153	.03243	.23607
-4.997	299.220	.12328	.02548	.00326	.12128	-.02040	-.00375	.00079	.00112	.03003	.23619
-4.970	398.930	.12840	.31622	.00670	.06285	-.02366	-.00330	.00077	.00085	.02271	.23646
-4.970	498.960	.09151	-.03714	.00251	.04197	-.01620	-.00348	.00107	.00065	.02567	.23640
-4.989	598.550	.21254	.36692	.00226	.03358	-.01431	-.00345	.00104	.00046	.02649	.23640
-4.966	698.630	.21143	.44121	.00933	.00547	-.01173	-.00405	.00096	.00039	.02718	.23663
-5.035	799.460	.20333	.21143	.00332	-.00738	-.00933	-.00429	.00087	.00054	.02768	.23651
-5.011	999.390	.33330	-.33229	-.00176	-.00365	-.00530	-.00437	.00086	.00054	.02752	.23673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2665/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.000	14.407	.21446	1.12230	.01650	.11078	.01832	-.00176	.00125	.00121	.04168	.23600
.001	49.225	.14455	-.30825	-.00250	.11614	.01357	-.00224	.00054	.00056	.04184	.23554
.009	99.930	.20057	.03373	.00278	.13044	.00331	-.00356	.00024	.00107	.03309	.23559
.003	149.060	.13355	.20132	.00280	.11007	-.00663	-.00536	.00055	.00089	.02798	.23576
-.006	159.470	.21313	-.36783	-.00278	.10537	-.01048	-.00556	.00057	.00089	.02777	.23624
.044	298.520	.22784	.18107	.00693	.04049	-.01796	-.00461	.00079	.00081	.02213	.23452
.021	398.900	.20717	.34761	.00835	.01680	-.01229	-.00452	.00082	.00048	.02320	.23425
.030	498.600	.34609	.08096	.00456	-.00111	-.01026	-.00474	.00078	.00055	.02465	.23476
.013	598.780	.26435	.15337	.00588	-.00499	-.00936	-.00480	.00076	.00055	.02493	.23479
-.004	799.390	.31171	1.12450	.01667	-.00531	-.00986	-.00492	.00078	.00055	.02518	.23501
-.017	879.350	.39132	.29342	.00619	-.00586	-.00936	-.00495	.00081	.00056	.02521	.23454
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(041IC1) W/ET SEPARATING (SVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.989	624.770	-14.99600	-.00094	.00607	-.01019	-.00474	.07344	.00754	-.00119	.00431
-19.986	699.450	-15.00800	-.00130	.00649	-.04913	-.01571	.07470	.00519	-.00096	.00327
-19.928	798.970	-15.01500	-.00151	.00122	-.10913	-.02036	.06414	.00420	-.00082	.00134
-19.993	1000.100	-15.01300	-.00191	.00417	-.22851	-.01330	.05583	.00152	-.00034	-.00122
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.991	474.770	-14.99600	-.00154	.00044	-.03614	-.00429	.07423	.00797	-.00064	.00326
-15.015	500.150	-15.00200	-.00159	.00058	-.06919	-.00693	.07557	.00768	-.00065	.00331
-14.984	549.670	-15.01000	-.00190	.00511	-.09761	-.01614	.07514	.00561	-.00041	.00224
-14.970	599.620	-15.01400	-.00191	.00337	-.13514	-.01895	.06717	.00498	-.00044	.00218
-14.952	699.230	-15.01700	-.00229	.00946	-.20793	-.01832	.05323	.00684	-.00012	.00095
-14.951	799.670	-15.01500	-.00240	.00557	-.23052	-.01541	.05379	.00741	-.00000	.00030
-14.910	999.090	-15.00900	-.00253	.00525	-.25314	-.00445	.06902	.00449	.00028	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.000	324.690	-14.99600	-.00135	.00310	-.02511	-.00035	.07557	.00703	-.00077	.00358
-10.053	350.480	-14.99200	-.00161	-.00204	-.05916	-.00424	.07628	.00608	-.00056	.00254
-10.022	399.540	-15.00700	-.00205	.00249	-.15311	-.00975	.07248	.00536	-.00021	.00174
-9.990	449.220	-15.01220	-.00212	.00265	-.18817	-.01441	.06596	.00531	-.00021	.00113
-9.988	499.280	-15.01540	-.00204	.00707	-.22464	-.01559	.06108	.00558	-.00032	.00011
-9.985	598.640	-15.01270	-.00222	.00708	-.25159	-.01208	.06093	.00611	-.00011	-.00005
-9.949	699.650	-15.01110	-.00246	.00548	-.25930	-.00977	.06519	.00471	.00018	.00110
-9.950	798.510	-15.00810	-.00242	.00593	-.28221	-.00449	.06753	.00424	.00019	.00062
-10.083	1000.100	-15.00500	-.00208	-.00080	-.33859	.00107	.07017	.00315	-.00006	.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04F.C1) W/ET SEPARATING (SVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.019	174.710	-14.93410	-.00099	.00757	-.14326	.01494	.07932	.00585	-.00090	.00213
-4.991	198.190	-14.93130	-.00141	-.00084	-.14291	.00865	.07534	.00363	-.00058	.00201
-5.026	249.590	-14.93320	-.00177	.00177	-.18095	-.00038	.07558	.00388	-.00035	.00157
-4.997	293.220	-15.00640	-.00212	.00326	-.20609	-.00865	.07321	.00350	-.00014	.00116
-4.970	343.930	-15.01550	-.00216	.00670	-.26449	-.01291	.00588	.00396	-.00016	.00089
-4.970	493.550	-15.00870	-.00238	.00251	-.26551	-.00544	.08536	.00378	.00014	.00069
-4.988	593.550	-15.00740	-.00234	.00826	-.29353	-.00355	.08968	.00381	.00012	.00050
-4.986	693.630	-15.00330	-.00209	.00333	-.32276	-.00094	.07047	.00322	-.00007	.00044
-5.035	793.450	-15.00330	-.00208	.00382	-.33739	.00091	.07121	.00302	-.00006	.00059
-5.011	993.330	-15.00320	-.00207	-.00176	-.33702	.00095	.07109	.00295	-.00007	.00058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2666/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.000	14.407	-14.97459	-.00212	.01950	-.22375	.02331	.08580	.00565	.00031	.00125
.001	49.225	-14.97231	-.00142	-.00250	-.21887	.02456	.08593	.00517	-.00041	.00061
.009	98.930	-14.97091	-.00121	.00278	-.20403	.01430	.07721	.00375	-.00070	.00112
.003	148.060	-14.97044	-.00167	.00220	-.22513	.00238	.07218	.00207	-.00039	.00094
-.006	159.470	-15.00111	-.00171	-.00278	-.22263	.00051	.07190	.00185	-.00038	.00093
.044	293.520	-15.01030	-.00207	.00533	-.29435	-.00696	.08929	.00281	-.00015	.00085
.021	392.900	-15.00813	-.00203	.00835	-.31782	-.00130	.08737	.00269	-.00012	.00053
.030	498.600	-15.00522	-.00197	.00456	-.33367	.00067	.08851	.00263	-.00016	.00060
.013	599.780	-15.00516	-.00194	.00588	-.33573	.00104	.08839	.00255	-.00017	.00060
-.004	799.390	-15.00537	-.00196	.01657	-.33643	.00102	.08885	.00242	-.00016	.00060
-.017	879.350	-15.00521	-.00199	.00619	-.33673	.00102	.08885	.00238	-.00012	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R31) W/ET SEPARATING (TVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-19.989	624.770	-.28342	.24872	.01421	-.12052	435.11000	.00000	.00000	651.17000	.00000	.00000
-19.956	699.450	-.15995	.14198	-.00918	-.16286	435.31000	.00000	.00000	651.47000	.00000	.00000
-19.928	798.970	-.27796	-.16571	.03207	-.12485	435.28000	.00000	.00000	651.44000	.00000	.00000
-19.993	1000.100	.10517	.14564	.03769	-.07608	435.41000	.00000	.00000	651.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.991	474.770	-.25976	-.12490	-.00499	-.19191	435.57000	.00000	.00000	652.01000	.00000	.00000
-15.015	500.150	.02574	-.23149	-.02239	-.31928	434.97000	.00000	.00000	650.98000	.00000	.00000
-14.984	549.670	-.00404	.07954	-.02929	-.26510	434.63000	.00000	.00000	650.45000	.00000	.00000
-14.970	599.620	.01570	.05489	.08165	-.07918	435.35000	.00000	.00000	651.54000	.00000	.00000
-14.952	699.230	-.05481	.33835	.05852	-.08051	435.54000	.00000	.00000	651.82000	.00000	.00000
-14.931	799.670	.00320	.12407	.05873	-.06789	435.95000	.00000	.00000	652.44000	.00000	.00000
-14.910	958.090	-.11642	.27700	.05344	-.05159	432.33000	.00000	.00000	647.02000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.000	324.690	-.05727	-.10170	-.01290	-.20711	434.55000	.00000	.00000	665.31000	.00000	.00000
-10.053	350.480	.16792	.13245	.03152	-.14278	433.65000	.00000	.00000	663.97000	.00000	.00000
-10.022	399.640	.14479	-.08033	.01435	-.18317	432.93000	.00000	.00000	662.88000	.00000	.00000
-9.930	449.220	.15336	-.03429	.01245	-.17881	432.97000	.00000	.00000	662.94000	.00000	.00000
-9.909	499.280	.10176	.30487	.05113	-.12339	432.99000	.00000	.00000	662.98000	.00000	.00000
-9.965	599.840	.01618	.22895	.05453	-.03571	432.59000	.00000	.00000	662.39000	.00000	.00000
-9.949	699.650	.04936	.07517	.03581	-.06936	432.34000	.00000	.00000	662.00000	.00000	.00000
-9.950	798.510	.07852	.26244	.03597	-.04943	432.00000	.00000	.00000	661.49000	.00000	.00000
-10.083	1000.100	.30351	.17415	.02176	-.04241	432.09000	.00000	.00000	661.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (TVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UYBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.019	174.710	.10917	.36129	-.11502	-.34774	432.35000	.00000	.00000	647.06000	.00000	.00000
-4.991	199.190	.14197	-.14418	.05287	.00202	432.80000	.00000	.00000	647.82000	.00000	.00000
-5.026	249.500	.03029	.10102	.02846	-.12058	433.02000	.00000	.00000	648.11000	.00000	.00000
-4.997	298.220	.12783	.02548	-.00212	-.16151	433.33000	.00000	.00000	648.52000	.00000	.00000
-4.970	348.930	.16540	.31822	.03250	-.00078	433.22000	.00000	.00000	648.46000	.00000	.00000
-4.970	498.930	.09151	-.03714	.03778	-.03579	433.42000	.00000	.00000	648.75000	.00000	.00000
-4.958	598.550	.21654	.33532	.03085	-.04153	433.55000	.00000	.00000	648.80000	.00000	.00000
-4.956	698.630	.21143	.44121	.02237	-.03336	434.47000	.00000	.00000	650.23000	.00000	.00000
-5.035	798.460	.27333	.21143	.01494	-.03189	435.82000	.00000	.00000	653.76000	.00000	.00000
-5.011	898.390	.33250	-.33129	.00849	-.03083	437.32000	.00000	.00000	654.46000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2683/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.000	14.407	.21446	1.12230	-.02535	-.13959	442.82000	.00000	.00000	662.72000	.00000	.00000
.001	49.225	.14456	-.30325	.04933	.00259	443.02000	.00000	.00000	663.08000	.00000	.00000
.009	98.930	.20067	.03973	.03201	-.02571	442.88000	.00000	.00000	662.82000	.00000	.00000
.003	149.060	.13335	.20132	.00404	-.05415	443.67000	.00000	.00000	663.96000	.00000	.00000
-.006	199.470	.21313	-.33733	-.00322	-.08484	442.97000	.00000	.00000	662.85000	.00000	.00000
.044	298.520	.22704	.18107	.00007	-.02733	443.22000	.00000	.00000	663.32000	.00000	.00000
.021	398.900	.20717	.34781	.01704	-.03251	442.53000	.00000	.00000	662.25000	.00000	.00000
.030	498.600	.34009	.00295	.01100	-.02483	440.21000	.00000	.00000	658.81000	.00000	.00000
.013	598.760	.26435	.15337	.00736	-.02278	439.20000	.00000	.00000	657.30000	.00000	.00000
-.004	799.390	.31171	1.12450	.00011	-.01342	438.37000	.00000	.00000	655.06000	.00000	.00000
-.017	879.350	.39132	.25242	-.00165	-.01102	438.08000	.00000	.00000	655.59000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04R(I) W/ET SEPARATING (UVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-19.989	624.770	977.34000	977.34000	81.00000	977.3400(	977.12000	67.00000	73.00000	6.36990	99.64200
-19.986	699.450	977.31000	977.31000	81.00000	977.3100(	977.12000	67.00000	73.00000	4.70100	99.64200
-19.928	798.970	977.74000	977.74000	81.00000	977.7400(	977.12000	67.00000	73.00000	13.66000	99.64200
-19.993	1000.100	978.03000	978.03000	81.00000	978.0300(	977.12000	67.00000	73.00000	5.64100	99.64200
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.991	474.770	974.27000	974.27000	77.00000	974.2700(	974.05000	64.00000	74.00000	7.57010	100.27000
-15.015	500.150	972.72000	972.72000	77.00000	972.7200(	974.05000	64.00000	74.00000	10.06500	100.27000
-14.994	549.670	972.42000	972.42000	77.00000	972.4200(	974.05000	64.00000	74.00000	16.11600	100.27000
-14.970	599.620	974.04000	974.04000	77.00000	974.0400(	974.05000	64.00000	74.00000	17.65300	100.27000
-14.952	699.230	974.95000	974.95000	77.00000	974.9500(	974.05000	64.00000	74.00000	13.79100	100.27000
-14.931	798.670	975.87000	975.87000	77.00000	975.8700(	974.05000	64.00000	74.00000	9.44150	100.27000
-14.910	903.030	976.33000	976.33000	77.00000	976.3300(	974.05000	64.00000	74.00000	3.98260	100.27000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2634/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.000	324.690	977.94000	977.94000	76.00000	977.94000	977.71999	79.00000	74.00000	21.67500	99.64200
-10.053	350.480	977.93000	977.93000	76.00000	977.93000	977.71999	79.00000	74.00000	24.01100	99.64200
-10.022	398.640	977.79000	977.79000	76.00000	977.79000	977.71999	79.00000	74.00000	18.60800	99.64200
-9.990	449.220	977.63000	977.63000	76.00000	977.63000	977.71999	79.00000	74.00000	15.45400	99.64200
-9.938	499.200	977.54000	977.54000	76.00000	977.54000	977.71999	79.00000	74.00000	15.38100	99.64200
-9.935	533.840	978.03000	978.03000	76.00000	978.03000	977.71999	79.00000	74.00000	7.90930	99.64200
-9.949	699.650	977.97000	977.97000	76.00000	977.97000	977.71999	79.00000	74.00000	.08455	99.64200
-9.950	799.510	978.19000	978.19000	76.00000	978.19000	977.71999	79.00000	74.00000	-4.82310	99.64200
-10.083	1000.100	978.39000	978.39000	76.00000	978.39000	977.71999	79.00000	74.00000	-8.75150	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) WET SEPARATING (RVK001) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2652/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	WM
-19.989	624.770	-.28342	.24872	.00607	.31772	-.11554	.00026	-.00027	.00426	.03009	.23416
-19.966	699.450	-.15935	.14199	.00649	.27923	-.12652	-.00209	-.00003	.00323	.03133	.23431
-19.928	799.970	-.27795	-.16571	.00122	.21991	-.13116	-.00309	.00011	.00130	.02078	.23455
-19.993	1000.100	.10517	.14564	.00417	.10052	-.12410	-.00577	.00058	-.00127	.01245	.23413
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	WM
-14.991	474.770	-.25876	-.12490	.00044	.29228	-.11511	.00067	.00029	.00322	.03083	.23202
-15.015	500.150	.02574	-.23149	.00059	.25972	-.11972	.00040	.00028	.00327	.03223	.23209
-14.994	549.670	-.00404	.07654	.00511	.23053	-.12622	-.00167	.00051	.00220	.03183	.23421
-14.970	599.620	.01570	.05468	.00337	.19325	-.12976	-.00230	.00049	.00213	.02379	.23475
-14.952	699.230	-.05481	.33335	.00345	.12110	-.12913	-.00045	.00081	.00090	.01484	.23451
-14.931	798.670	.00520	.12407	.00557	.09353	-.12824	.00012	.00093	.00025	.01536	.23462
-14.910	998.090	-.11842	.27700	.00935	.04007	-.11519	-.00274	.00121	.00051	.02594	.23493
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C.MR	CYR	CYNR	CBLR	CAR	WM
-10.000	324.690	-.05727	-.10170	.00310	.28353	-.11186	-.00041	.00017	.00352	.03128	.23535
-10.053	350.480	.16792	.13245	-.00204	.23500	-.11525	-.00135	.00038	.00249	.03208	.23501
-10.022	399.640	.14479	-.05633	.00249	.18151	-.12075	-.00206	.00073	.00170	.02835	.23459
-9.990	449.220	.18326	-.09429	.00285	.14648	-.12540	-.00210	.00073	.00108	.02283	.23483
-9.988	499.280	.10176	.30467	.00707	.11043	-.12859	-.00184	.00053	.00006	.01694	.23487
-9.985	593.640	.01618	.22885	.00709	.08277	-.12307	-.00130	.00083	-.00010	.01683	.23535
-9.949	693.650	.04936	.07817	.00748	.07507	-.13075	-.00269	.00111	.00106	.02111	.23531
-9.950	798.510	.07032	.23844	.00585	.05170	-.11546	-.00316	.00114	.00058	.02350	.23522
-10.083	1000.100	.30351	.17415	-.00020	-.00441	-.10931	-.00425	.00082	.00057	.02613	.23528
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORB:TER(O4 RC1) W/ET SEPARATING (RVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-5.019	174.710	.10917	.36129	.00757	.18337	.00421	-.00138	.00002	.00208	.03625	.23619
-4.991	199.190	.14197	-.14418	-.00084	.18410	-.00389	-.00361	.00034	.00196	.03221	.23595
-5.026	249.590	.03969	.10102	.00177	.14620	-.01113	-.00337	.00057	.00153	.03243	.23607
-4.997	299.220	.12328	.02548	.00326	.12128	-.02040	-.00375	.00079	.00112	.03003	.23619
-4.970	398.930	.12840	.31622	.00670	.06285	-.02366	-.00330	.00077	.00085	.02271	.23646
-4.970	498.960	.09151	-.03714	.00251	.04197	-.01620	-.00348	.00107	.00065	.02567	.23640
-4.958	598.550	.21284	.35392	.00226	.03358	-.01431	-.00345	.00104	.00046	.02649	.23640
-4.955	693.630	.21143	.44121	.00253	.00547	-.01173	-.00405	.00096	.00039	.02718	.23663
-5.035	799.460	.20333	.21143	.00332	-.00738	-.00933	-.00429	.00087	.00054	.02768	.23551
-5.011	939.390	.33330	-.33329	-.00176	-.00365	-.00930	-.00437	.00036	.00054	.02752	.23673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-.000	14.407	.21446	1.12230	.01650	.11078	.01832	-.00176	.00125	.00121	.04169	.23600
.001	49.225	.14455	-.30625	-.00250	.11614	.01357	-.00224	.00054	.00056	.04184	.23554
.009	99.590	.20097	.03973	.00278	.13044	.00331	-.00386	.00024	.00107	.03309	.23559
.003	149.080	.13855	.20132	.00280	.11007	-.00853	-.00536	.00055	.00089	.02798	.23576
-.006	159.470	.21313	-.36783	-.00278	.10537	-.01048	-.00556	.00057	.00089	.02777	.23624
.044	298.520	.22784	.18107	.00633	.04049	-.01796	-.00461	.00079	.00081	.02213	.23452
.021	398.900	.20717	.34761	.00835	.01680	-.01229	-.00452	.00082	.00048	.02326	.23425
.030	498.600	.34609	.08096	.00456	-.00111	-.01026	-.00474	.00078	.00055	.02465	.23476
.013	598.780	.26435	.15337	.00588	-.00499	-.00936	-.00480	.00076	.00055	.02493	.23479
-.004	799.390	.31171	1.12450	.01867	-.00531	-.00986	-.00492	.00078	.00055	.02518	.23501
-.017	879.350	.39132	.29342	.00619	-.00586	-.00936	-.00495	.00081	.00056	.02521	.23454
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.989	624.770	-14.99800	-.00094	.00607	-.01089	-.00474	.07344	.00754	-.00119	.00431
-19.956	699.450	-15.00800	-.00130	.00649	-.04983	-.01571	.07470	.00519	-.00096	.00327
-19.928	798.970	-15.01500	-.00151	.00122	-.10913	-.02036	.06414	.00420	-.00082	.00134
-19.993	1000.100	-15.01300	-.00191	.00417	-.22841	-.01330	.05583	.00152	-.00034	-.00122
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.991	474.770	-14.99600	-.00154	.00044	-.03684	-.00429	.07423	.00797	-.00064	.00326
-15.015	500.150	-15.00200	-.00159	.00058	-.05959	-.00693	.07557	.00768	-.00065	.00331
-14.984	549.670	-15.01000	-.00190	.00511	-.09761	-.01614	.07514	.00561	-.00041	.00224
-14.970	599.620	-15.01400	-.00191	.00337	-.13514	-.01895	.06717	.00498	-.00044	.00218
-14.952	699.230	-15.01700	-.00229	.00946	-.20793	-.01832	.05323	.00684	-.00012	.00095
-14.931	799.670	-15.01500	-.00240	.00657	-.23052	-.01541	.05378	.00741	-.00000	.00030
-14.910	999.090	-15.00900	-.00253	.00595	-.25514	-.00445	.06902	.00449	.00028	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.000	324.690	-14.99800	-.00135	.00310	-.02511	-.00035	.07557	.00703	-.00077	.00358
-10.053	350.480	-14.99700	-.00161	-.00204	-.05916	-.00424	.07628	.00608	-.00056	.00254
-10.022	399.540	-15.00700	-.00205	.00249	-.15311	-.00975	.07248	.00536	-.00021	.00174
-9.990	449.220	-15.01220	-.00212	.00265	-.18817	-.01441	.06896	.00531	-.00021	.00113
-9.988	499.280	-15.01540	-.00204	.00707	-.22464	-.01559	.06108	.00558	-.00032	.00011
-9.985	598.640	-15.01270	-.00322	.00708	-.25159	-.01208	.06093	.00611	-.00011	-.00005
-9.949	695.650	-15.01110	-.00246	.00548	-.25930	-.00977	.06519	.00471	.00018	.00110
-9.950	798.510	-15.00810	-.00242	.00593	-.28221	-.00449	.06753	.00424	.00019	.00062
-10.083	1000.100	-15.00500	-.00208	-.00080	-.33859	.00107	.07017	.00315	-.00006	.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04F.C1) W/ET SEPARATING (SVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.019	174.710	-14.93410	-.00099	.00757	-.14326	.01494	.07932	.00585	-.00090	.00213
-4.991	198.190	-14.93130	-.00141	-.00084	-.14251	.00885	.07534	.00363	-.00058	.00201
-5.026	249.590	-14.93320	-.00177	.00177	-.16095	-.00038	.07559	.00388	-.00035	.00157
-4.997	293.220	-15.00940	-.00212	.00326	-.20603	-.00985	.07321	.00350	-.00014	.00116
-4.970	393.930	-15.01550	-.00216	.00570	-.26448	-.01291	.00588	.00396	-.00016	.00089
-4.970	493.930	-15.00870	-.00238	.00851	-.28551	-.00544	.06686	.00378	.00014	.00069
-4.958	593.630	-15.00740	-.00234	.00826	-.29393	-.00355	.06968	.00381	.00012	.00050
-4.956	693.630	-15.00330	-.00209	.00653	-.32275	-.00094	.07047	.00322	-.00007	.00044
-5.035	793.480	-15.00330	-.00208	.00302	-.33739	.00091	.07121	.00302	-.00006	.00059
-5.011	993.330	-15.00320	-.00207	-.00176	-.33702	.00595	.07109	.00295	-.00007	.00058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2666/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.000	14.407	-14.97459	-.00212	.01850	-.22375	.02331	.08580	.00565	.00031	.00125
.001	49.225	-14.97231	-.00142	-.00250	-.21887	.02456	.08598	.00517	-.00041	.00061
.009	98.980	-14.97291	-.00121	.00278	-.20403	.01430	.07721	.00375	-.00070	.00112
.003	149.060	-14.97344	-.00167	.00280	-.22510	.00238	.07218	.00207	-.00039	.00094
-.006	159.470	-15.00111	-.00171	-.00278	-.22283	.00051	.07190	.00185	-.00038	.00093
.044	293.520	-15.01030	-.00207	.00633	-.29435	-.00696	.06829	.00281	-.00015	.00085
.021	392.900	-15.00813	-.00203	.00835	-.31752	-.00130	.06737	.00289	-.00012	.00053
.030	498.600	-15.00522	-.00197	.00455	-.33387	.00067	.06851	.00263	-.00016	.00060
.013	599.780	-15.00516	-.00194	.00588	-.33578	.00104	.06859	.00255	-.00017	.00060
-.004	799.390	-15.00537	-.00196	.01857	-.33643	.00102	.06885	.00242	-.00016	.00060
-.017	879.350	-15.00521	-.00199	.00619	-.33673	.00102	.06885	.00238	-.00012	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R31) W/ET SEPARATING (TVK001) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-19.989	624.770	-.28342	.24872	.01421	-.12052	435.11000	.00000	.00000	651.17000	.00000	.00000
-19.956	699.450	-.15995	.14198	-.00918	-.16286	435.31000	.00000	.00000	651.47000	.00000	.00000
-19.928	798.970	-.27796	-.16571	.03207	-.12485	435.28000	.00000	.00000	651.44000	.00000	.00000
-19.993	1000.100	.10517	.14564	.03769	-.07608	435.41000	.00000	.00000	651.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.991	474.770	-.25976	-.12490	-.00499	-.19191	435.57000	.00000	.00000	652.01000	.00000	.00000
-15.015	500.150	.02574	-.23149	-.02239	-.31928	434.97000	.00000	.00000	650.98000	.00000	.00000
-14.984	549.670	-.00404	.07954	-.02929	-.26510	434.63000	.00000	.00000	650.45000	.00000	.00000
-14.970	599.620	.01570	.05489	.08165	-.07918	435.33000	.00000	.00000	651.54000	.00000	.00000
-14.952	699.230	-.05481	.33835	.05932	-.09351	435.54000	.00000	.00000	651.82000	.00000	.00000
-14.931	799.670	.00320	.12407	.05573	-.06759	435.55000	.00000	.00000	652.44000	.00000	.00000
-14.910	958.090	-.11642	.27700	.05344	-.06159	432.33000	.00000	.00000	647.02000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.000	324.690	-.05727	-.10170	-.01290	-.20711	434.55000	.00000	.00000	665.31000	.00000	.00000
-10.053	350.480	.16792	.13245	.03152	-.14278	433.65000	.00000	.00000	663.97000	.00000	.00000
-10.022	399.640	.14479	-.05033	.01435	-.18317	432.93000	.00000	.00000	662.89000	.00000	.00000
-9.930	449.220	.15336	-.03429	.01246	-.17831	432.97000	.00000	.00000	662.94000	.00000	.00000
-9.903	499.280	.10176	.30467	.05103	-.12359	432.89000	.00000	.00000	662.85000	.00000	.00000
-9.965	599.840	.01618	.22895	.05463	-.08571	432.59000	.00000	.00000	662.39000	.00000	.00000
-9.949	699.650	.04936	.07517	.03581	-.06336	432.34000	.00000	.00000	662.00000	.00000	.00000
-9.950	798.510	.07852	.26244	.03597	-.04943	432.00000	.00000	.00000	661.49000	.00000	.00000
-10.083	1000.100	.30351	.17415	.02176	-.04241	432.09000	.00000	.00000	661.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (TVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.019	174.710	.10917	.36129	-.11502	-.34774	432.35000	.00000	.00000	647.06000	.00000	.00000
-4.991	199.190	.14197	-.14418	.09287	.00202	432.60000	.00000	.00000	647.82000	.00000	.00000
-5.026	249.530	.03009	.10102	.02546	-.12058	433.00000	.00000	.00000	648.11000	.00000	.00000
-4.997	273.220	.12723	.02048	-.00032	-.16151	433.33000	.00000	.00000	648.52000	.00000	.00000
-4.970	323.930	.12040	.31882	.03250	-.00078	433.22000	.00000	.00000	648.46000	.00000	.00000
-4.970	423.930	.09151	-.03714	.03778	-.02579	433.42000	.00000	.00000	648.75000	.00000	.00000
-4.959	538.560	.21234	.33592	.03085	-.04153	433.55000	.00000	.00000	648.80000	.00000	.00000
-4.956	658.630	.21143	.44121	.02237	-.03335	434.47000	.00000	.00000	650.23000	.00000	.00000
-5.035	793.460	.20333	.21143	.01484	-.03183	435.82000	.00000	.00000	653.76000	.00000	.00000
-5.011	933.350	.32330	-.32329	.00849	-.02003	437.32000	.00000	.00000	654.40000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2683/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.000	14.407	.21446	1.12230	-.02535	-.13559	442.82000	.00000	.00000	662.72000	.00000	.00000
.001	49.225	.14455	-.30825	.04933	.00259	443.02000	.00000	.00000	663.08000	.00000	.00000
.009	98.930	.20067	.03973	.03201	-.02571	442.80000	.00000	.00000	662.82000	.00000	.00000
.003	149.060	.13385	.20132	.00404	-.05415	443.67000	.00000	.00000	663.09000	.00000	.00000
-.006	199.470	.21313	-.33733	-.00822	-.05484	442.97000	.00000	.00000	662.55000	.00000	.00000
.044	253.520	.22704	.18107	.00007	-.05133	443.22000	.00000	.00000	663.32000	.00000	.00000
.021	303.900	.20717	.34781	.01754	-.03251	442.53000	.00000	.00000	662.25000	.00000	.00000
.030	453.600	.34009	.00295	.01100	-.02483	440.21000	.00000	.00000	658.81000	.00000	.00000
.013	558.780	.28435	.15337	.00736	-.02278	439.20000	.00000	.00000	657.30000	.00000	.00000
-.004	799.390	.31171	1.12450	.00011	-.01342	438.37000	.00000	.00000	656.06000	.00000	.00000
-.017	879.350	.39132	.25342	-.00165	-.01102	438.03000	.00000	.00000	655.59000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R(1) W/ET SEPARATING (UVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2652/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-19.989	624.770	977.34000	977.34000	81.00000	977.34000	977.12000	67.00000	73.00000	6.36990	99.64200
-19.936	699.450	977.31000	977.31000	81.00000	977.31000	977.12000	67.00000	73.00000	4.70100	99.64200
-19.928	798.970	977.74000	977.74000	81.00000	977.74000	977.12000	67.00000	73.00000	13.66000	99.64200
-19.993	1000.100	978.03000	978.03000	81.00000	978.03000	977.12000	67.00000	73.00000	5.64100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.991	474.770	974.27000	974.27000	77.00000	974.27000	974.05000	64.00000	74.00000	7.57010	100.27000
-15.015	500.150	972.72000	972.72000	77.00000	972.72000	974.05000	64.00000	74.00000	10.06500	100.27000
-14.994	549.670	972.42000	972.42000	77.00000	972.42000	974.05000	64.00000	74.00000	16.11600	100.27000
-14.970	599.620	974.04000	974.04000	77.00000	974.04000	974.05000	64.00000	74.00000	17.65300	100.27000
-14.952	699.230	974.95000	974.95000	77.00000	974.95000	974.05000	64.00000	74.00000	13.79100	100.27000
-14.931	798.670	975.87000	975.87000	77.00000	975.87000	974.05000	64.00000	74.00000	9.44150	100.27000
-14.910	903.030	976.33000	976.33000	77.00000	976.33000	974.05000	64.00000	74.00000	3.98260	100.27000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.000	324.690	977.94000	977.94000	76.00000	977.94000	977.71999	79.00000	74.00000	21.67500	99.64200
-10.053	350.480	977.93000	977.93000	76.00000	977.93000	977.71999	79.00000	74.00000	24.01100	99.64200
-10.022	399.640	977.79000	977.79000	76.00000	977.79000	977.71999	79.00000	74.00000	18.60800	99.64200
-9.990	449.220	977.62000	977.62000	76.00000	977.62000	977.71999	79.00000	74.00000	15.45400	99.64200
-9.978	498.220	977.54000	977.54000	76.00000	977.54000	977.71999	79.00000	74.00000	15.38100	99.64200
-9.955	523.640	978.03000	978.03000	76.00000	978.03000	977.71999	79.00000	74.00000	7.90930	99.64200
-9.949	699.650	977.97000	977.97000	76.00000	977.97000	977.71999	79.00000	74.00000	.08465	99.64200
-9.950	799.510	978.19000	978.19000	76.00000	978.19000	977.71999	79.00000	74.00000	-4.82310	99.64200
-10.083	1000.100	978.39000	978.39000	76.00000	978.39000	977.71999	79.00000	74.00000	-8.75150	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK001) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.019	174.710	980.71000	980.71000	74.00000	980.71000	980.48000	76.00000	72.00000	15.40200	99.64200
-4.991	199.190	980.43000	980.43000	74.00000	980.43000	980.48000	76.00000	72.00000	17.81000	99.64200
-5.026	249.590	980.40000	980.40000	74.00000	980.40000	980.48000	76.00000	72.00000	11.80500	99.64200
-4.997	289.220	980.54000	980.54000	74.00000	980.54000	980.48000	76.00000	72.00000	7.01520	99.64200
-4.970	383.920	980.92000	980.92000	74.00000	980.92000	980.48000	76.00000	72.00000	4.89240	99.64200
-4.970	493.990	980.92000	980.92000	74.00000	980.92000	980.48000	76.00000	72.00000	-.27915	99.64200
-4.938	593.530	980.92000	980.92000	74.00000	980.92000	980.48000	76.00000	72.00000	-4.91400	99.64200
-4.966	698.830	980.72000	980.72000	74.00000	980.72000	980.48000	76.00000	72.00000	-7.42470	99.64200
-5.035	799.460	981.22000	981.22000	74.00000	981.22000	980.48000	76.00000	72.00000	-9.87320	99.64200
-5.011	998.390	981.82000	981.82000	74.00000	981.82000	980.48000	76.00000	72.00000	-12.90500	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.000	14.407	980.00000	980.00000	77.00000	980.00000	979.78000	64.00000	74.00000	-2.32820	99.64200
.001	49.225	980.54000	980.54000	77.00000	980.54000	979.78000	64.00000	74.00000	-3.20930	99.64200
.009	98.980	980.93000	980.93000	77.00000	980.93000	979.78000	64.00000	74.00000	-4.16920	99.64200
.003	149.060	980.91000	980.91000	77.00000	980.91000	979.78000	64.00000	74.00000	-5.67310	99.64200
-.006	159.470	981.32000	981.32000	77.00000	981.32000	979.78000	64.00000	74.00000	-6.52160	99.64200
.044	289.520	979.92000	979.92000	77.00000	979.92000	979.78000	64.00000	74.00000	-6.28920	99.64200
.021	358.990	978.30000	978.30000	77.00000	978.30000	979.78000	64.00000	74.00000	-7.19930	99.64200
.030	458.600	977.62000	977.62000	77.00000	977.62000	979.78000	64.00000	74.00000	-9.33200	99.64200
.013	583.780	977.32000	977.32000	77.00000	977.32000	979.78000	64.00000	74.00000	-11.82000	99.64200
-.004	799.380	976.93000	976.93000	77.00000	976.93000	979.78000	64.00000	74.00000	-14.41200	99.64200
-.017	879.350	976.70000	976.70000	77.00000	976.70000	979.78000	64.00000	74.00000	-14.70700	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPAR/TING FROM ORB (O4RC1) (AVK001) (04-MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2662/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.989	624.770	-.28342	.24872	-34.98500	.00513	-.72087	-.08527	.02630	.00147	.00192	.12235
-19.995	699.450	-.15995	.14198	-34.97400	.00519	-.74584	-.07169	.02632	.00027	.00213	.13742
-19.998	799.970	-.27795	-.16571	-34.94300	-.00029	-.81083	-.03138	.03005	-.00109	.00210	.14721
-19.993	1000.100	.10517	.14594	-35.00600	.00227	-.80058	.03795	.03235	-.00330	.00205	.18341
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2650/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.991	474.770	-.25876	-.12490	-29.93700	-.00111	-.59575	-.07340	.01890	.00264	.00169	.12271
-15.015	500.150	.02574	-.23149	-30.01700	-.00101	-.57879	-.08496	.02095	.00165	.00141	.11803
-14.994	549.670	-.00404	.07554	-29.99400	.00220	-.59009	-.07644	.02243	.00063	.00156	.12297
-14.970	599.620	.01570	.03409	-29.93400	.00195	-.61734	-.06332	.02313	.00024	.00157	.12771
-14.952	699.230	-.05481	.33655	-29.90000	.00717	-.66527	-.03759	.02529	-.00129	.00170	.13691
-14.931	799.670	.00820	.12407	-29.94600	.00417	-.70356	.00096	.02707	-.00305	.00166	.15618
-14.910	999.090	-.11642	.27700	-29.91800	.00742	-.74772	.04991	.02741	-.00506	.00182	.19057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2654/ 0 RN/L = .5 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.000	324.690	-.05727	-.10170	-24.03300	.00175	-.51223	-.04180	.02000	-.00175	.00142	.13477
-10.053	350.480	.16792	.13245	-25.05200	-.00335	-.46922	-.07019	.01489	.00143	.00115	.11727
-10.022	399.640	.14479	-.05533	-25.02900	.00044	-.45333	-.08020	.01477	.00164	.00105	.11060
-9.990	449.220	.16326	-.08429	-25.00200	.00074	-.47294	-.06901	.01659	.00062	.00111	.11361
-9.998	499.280	.10176	.30467	-25.00300	.00003	-.49203	-.05685	.01814	-.00007	.00119	.11758
-9.955	599.840	.01618	.22696	-24.97600	.00426	-.53101	-.02814	.02011	-.00171	.00120	.13073
-9.949	699.650	.04936	.07517	-24.93000	.00302	-.57561	.00734	.02054	-.00310	.00118	.15227
-9.950	799.510	.07632	.23244	-24.93900	.00351	-.61047	.04006	.02014	-.00353	.00135	.17692
-10.083	1000.100	.30351	.17415	-25.08300	-.00228	-.58003	-.00695	.01288	-.00020	.00043	.14542
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK001) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2658/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.019	174.710	.10917	.36129	-20.00300	.00658	-.36552	-.05902	.01382	-.00007	.00046	.10842
-4.991	199.190	.14197	-.14418	-19.99200	-.00225	-.36954	-.05439	.01182	.00060	.00051	.11439
-5.026	249.590	.03669	.10102	-20.02500	-.00000	-.34489	-.06812	.00956	.00159	.00060	.10226
-4.997	299.220	.12328	.02548	-20.00800	.00114	-.35018	-.06501	.00906	.00139	.00070	.10643
-4.970	398.930	.12240	.31622	-19.99500	.00454	-.38004	-.04512	.01117	.00025	.00082	.11140
-4.970	498.960	.09151	-.08714	-19.97900	.00013	-.41294	-.01935	.01254	-.00065	.00079	.12644
-4.958	598.560	.21284	.38592	-19.99300	.00592	-.44433	.00957	.01310	-.00170	.00067	.14128
-4.956	693.630	.21143	.44121	-19.97200	.00753	-.46428	.03291	.01361	-.00288	.00092	.16500
-5.035	793.460	.28533	.21143	-20.04100	.00174	-.41713	.01351	.01159	-.00211	.00086	.15258
-5.011	893.390	.33330	-.33629	-20.01700	-.00383	-.31767	-.04191	.00766	.00041	.00031	.12063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2666/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.000	14.407	.21446	1.12230	-14.97500	.01638	-.26694	-.06573	.00842	.00072	.00052	.09890
.001	49.225	.14455	-.30325	-14.97800	-.00392	-.26541	-.06204	.00974	.00071	.00025	.09529
.009	99.930	.20037	.03373	-14.97600	.00157	-.26427	-.05597	.01053	.00044	.00023	.09909
.003	149.060	.13255	.20132	-14.97500	.00112	-.25547	-.05537	.00427	.00181	.00034	.09700
-.006	159.470	.21313	-.36783	-15.00700	-.00448	-.25516	-.05543	.00422	.00191	.00036	.09735
.044	298.520	.22784	.18107	-14.95700	.00487	-.28525	-.03196	.00804	.00055	.00046	.10710
.021	398.900	.20717	.34761	-14.97300	.00632	-.30599	-.01231	.00907	-.00023	.00045	.11598
.030	498.600	.34809	.08386	-14.97600	.00260	-.32639	.01028	.00636	-.00092	.00035	.12980
.013	598.780	.26435	.15337	-14.99200	.00394	-.33048	.02259	.00977	-.00207	.00053	.14490
-.004	799.390	.31171	1.12450	-15.01000	.01671	-.21635	-.03768	.00556	.00087	.00014	.10533
-.017	879.350	.39132	.25342	-15.02200	.00420	-.21397	-.03599	.00564	.00081	.00015	.10615
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OIRCI) W/ET SEPARATING (RVK302) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2663/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-19.994	625.040	199.94000	.17200	.00089	.29422	-.03564	-.00277	.00008	.00215	.02644	.23456
-20.054	700.850	200.14000	-.03952	.00013	.20051	-.03285	-.00340	.00008	.00211	.01438	.23453
-20.002	800.000	199.96000	.10318	.00497	.13205	-.03158	-.00565	.00051	.00019	.00933	.23451
-20.095	1001.600	200.50000	.05606	-.00033	.09586	-.02107	-.00530	.00049	-.00061	.01950	.23450
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2651/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-14.976	474.800	199.93000	.42943	.00869	.25733	-.03384	-.00178	.00035	.00121	.02690	.23401
-14.939	499.880	199.92000	-.23543	-.00271	.20393	-.02957	-.00186	.00036	.00134	.02545	.23419
-15.025	550.300	200.03000	.23918	.00712	.14586	-.02770	-.00210	.00043	.00090	.02184	.23401
-15.040	600.540	200.07000	-.08976	-.00083	.12347	-.03030	-.00084	.00058	.00012	.01928	.23455
-15.052	700.810	200.22000	.03828	-.00119	.07456	-.02231	-.00081	.00064	.00039	.02015	.23377
-14.999	799.590	200.10000	.32209	.00335	.03937	-.01534	-.00232	.00109	.00110	.02632	.23383
-15.046	1000.500	200.32000	-.09022	-.00304	.01281	-.01348	-.00308	.00101	.00036	.02900	.23410
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-9.995	324.970	200.01000	-.09535	.00225	.24018	-.02510	-.00028	.00023	.00207	.02024	.23568
-9.982	349.690	199.93000	-.03026	.00220	.20729	-.02603	-.00223	.00053	.00158	.02356	.23620
-10.023	400.170	200.03000	-.09749	-.00010	.14705	-.02426	-.00233	.00084	.00109	.02550	.23618
-10.024	449.930	200.15000	-.44335	-.00497	.10539	-.02492	-.00227	.00083	.00047	.02213	.23630
-10.052	500.040	200.28000	-.02169	-.00061	.07815	-.02379	-.00232	.00066	.00065	.01820	.23630
-10.063	600.330	200.27000	.33331	.00393	.05333	-.01059	-.00350	.00109	.00057	.02295	.23579
-10.078	700.790	200.48000	.15509	.00233	.03959	-.01425	-.00351	.00109	.00047	.02460	.23600
-10.013	799.440	200.24000	.93210	.01670	.01539	-.01228	-.00385	.00085	.00039	.02520	.23592
-9.929	998.610	200.13000	.00231	.00989	-.00518	-.00827	-.00423	.00089	.00056	.02620	.23608
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (RVK002) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2659/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.026	174.950	200.25000	.06537	.00279	.17118	-.00215	-.00279	.00033	.00192	.02546	.23481
-5.029	200.110	200.22000	.16835	.00524	.16479	-.00714	-.00304	.00031	.00167	.02585	.23448
-4.992	249.640	200.25000	.06597	.00413	.14220	-.01558	-.00387	.00084	.00117	.03087	.23421
-5.045	300.210	200.30000	-.11180	-.00045	.11065	-.02080	-.00376	.00088	.00092	.02830	.23712
-5.042	400.040	200.28000	-.06957	.00138	.05564	-.02115	-.00395	.00091	.00045	.02251	.23710
-5.057	500.350	200.27000	.05097	.00096	.03173	-.01391	-.00378	.00105	.00046	.02516	.23735
-5.062	600.530	200.30000	.34516	.00473	.00457	-.01115	-.00434	.00088	.00043	.02658	.23720
-5.065	700.490	200.48000	.17263	.00392	-.00530	-.00934	-.00427	.00087	.00055	.02716	.23677
-4.945	799.100	200.28000	-.06514	.00322	-.00613	-.00931	-.00446	.00098	.00054	.02751	.23701
-4.971	988.590	200.16000	.14255	.00429	-.00636	-.00980	-.00425	.00087	.00055	.02750	.23701
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2667/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.046	15.352	200.25000	.57422	.01207	.12018	.02464	-.00323	.00030	.00089	.03982	.23509
-.050	50.577	200.29000	.65505	.01152	.12740	.01439	-.00308	-.00014	.00074	.03368	.23519
-.020	100.080	200.23000	-.65259	-.00833	.12426	.00141	-.00335	.00032	.00113	.03012	.23501
-.007	149.630	200.24000	.32167	.00555	.11072	-.00783	-.00528	.00038	.00095	.02999	.23459
-.050	160.430	200.23000	.33338	.00515	.10632	-.01005	-.00532	.00034	.00087	.02975	.23513
-.041	300.050	200.16000	.51028	.00033	.03597	-.01821	-.00463	.00079	.00057	.02300	.23514
-.057	400.170	200.29000	-.04033	-.00054	.01131	-.01218	-.00472	.00079	.00040	.02471	.23480
-.057	500.380	200.32000	.08336	.00166	-.00548	-.00994	-.00485	.00078	.00056	.02564	.23486
-.020	600.210	200.42000	.18357	.00422	-.00642	-.00991	-.00499	.00080	.00055	.02553	.23466
.028	798.550	200.42000	-.13391	.00396	-.00596	-.00932	-.00493	.00076	.00056	.02531	.23489
.008	879.030	200.18000	.20409	.00413	-.00634	-.00985	-.00469	.00078	.00055	.02523	.23483
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OMRCI) W/ET SEPARATING (SVK002) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2663/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.994	623.040	-15.01200	-.00163	.00009	-.03208	-.02479	.07030	.00455	-.00085	.00219
-20.054	700.650	-15.01700	-.00150	.00013	-.12833	-.02200	.05782	.00382	-.00085	.00216
-20.002	800.000	-15.01800	-.00192	.00497	-.19738	-.02075	.05281	.00165	-.00042	.00023
-20.095	1001.600	-15.01100	-.00178	-.00033	-.24283	-.01025	.05291	.00200	-.00044	-.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2651/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.976	474.600	-15.01600	-.00183	.00009	-.03721	-.02318	.07870	.00541	-.00056	.00125
-14.939	499.200	-15.01400	-.00179	-.00271	-.11744	-.01904	.06810	.00530	-.00055	.00139
-15.025	550.300	-15.01500	-.00185	.00712	-.17135	-.01716	.05414	.00501	-.00048	.00094
-15.040	600.540	-15.01500	-.00219	-.00068	-.19235	-.01930	.05144	.00315	-.00022	.00016
-15.052	700.810	-15.01500	-.00209	-.00119	-.24830	-.01479	.05237	.00529	-.00025	.00043
-14.999	799.590	-15.01600	-.00249	.00025	-.28138	-.00911	.06003	.00478	.00019	.00115
-15.046	1000.500	-15.01500	-.00230	-.00304	-.30035	-.00022	.07139	.00405	.00010	.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.995	324.970	-15.00750	-.00161	.00325	-.09108	-.01419	.06401	.00707	-.00070	.00212
-9.992	349.630	-15.01150	-.00191	.00230	-.12476	-.01511	.06735	.00512	-.00041	.00163
-10.023	400.170	-15.01100	-.00222	-.00010	-.16479	-.01335	.03227	.00446	-.00009	.00114
-10.024	449.930	-15.01400	-.00282	-.00007	-.20071	-.01401	.08303	.00409	-.00011	.00051
-10.052	500.040	-15.01400	-.00304	-.00031	-.22019	-.01209	.08169	.00203	-.00023	.00059
-10.053	600.330	-15.01100	-.00242	.00003	-.27034	-.00786	.08977	.00205	.00016	.00052
-10.078	700.750	-15.00700	-.00236	.00233	-.28420	-.00331	.08949	.00337	.00015	.00051
-10.013	799.440	-15.00700	-.00219	.01670	-.31718	-.00135	.08809	.00353	.00001	.00044
-9.929	993.610	-15.00350	-.00209	.00359	-.33738	.00106	.07009	.00315	-.00005	.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK002) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2659/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.026	174.950	-14.99 20	-.00138	.00279	-.158 65	.00869	.06896	.00452	-.00060	.00197
-5.029	200.110	-14.99330	-.00143	.00324	-.165 17	.00371	.06940	.00428	-.00062	.00171
-4.922	249.640	-15.00370	-.00209	.00413	-.189 18	-.00469	.07459	.00348	-.00010	.00122
-5.045	300.210	-15.00330	-.00221	.00345	-.221 16	-.00937	.07218	.00362	-.00006	.00097
-5.042	400.040	-15.01310	-.00226	.00139	-.277 13	-.01021	.00642	.00353	-.00003	.00050
-5.057	500.350	-15.00760	-.00231	.00036	-.302 7	-.00293	.06919	.00352	.00011	.00050
-5.062	600.530	-15.00590	-.00203	.00473	-.328 9	-.00022	.07056	.00304	-.00006	.00047
-5.055	700.490	-15.00570	-.00207	.00392	-.337 7	.00108	.07100	.00310	-.00007	.00059
-4.945	799.100	-15.00570	-.00209	.00622	-.339 18	.00100	.07129	.00290	-.00005	.00059
-4.971	900.930	-15.00330	-.00207	.00429	-.332 9	.00100	.07123	.00310	-.00007	.00059
	GRADIENT	.00000	.00000	.00000	.000 10	.00000	.00000	.00000	.00000	.00000

RUN NO. 2667/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.046	15.352	-14.96932	-.00100	.01207	-.208 14	.03545	.08321	.00406	-.00063	.00093
-.050	50.577	-14.97738	-.00067	.01152	-.202 5	.02522	.07714	.00422	-.00107	.00078
-.020	100.080	-14.00015	-.00133	-.00033	-.205 14	.01225	.07352	.00394	-.00061	.00118
-.007	149.630	-14.99789	-.00170	.00366	-.213 11	.00306	.07346	.00203	-.00035	.00099
-.050	199.430	-15.00003	-.00179	.00315	-.223 7	.00079	.07322	.00199	-.00029	.00091
-.041	300.050	-15.01145	-.00238	.00033	-.233 3	-.00738	.06546	.00257	-.00014	.00062
-.057	400.170	-15.00382	-.00230	-.00054	-.318 1	-.00134	.06319	.00238	-.00014	.00044
-.057	500.350	-15.00399	-.00193	.00166	-.335 3	.00390	.06817	.00247	-.00015	.00060
-.020	600.210	-15.00590	-.00198	.00422	-.335 9	.00094	.06907	.00232	-.00013	.00059
.028	798.930	-15.00591	-.00194	.00366	-.339 1	.00095	.06990	.00240	-.00017	.00060
.008	879.030	-15.00567	-.00196	.00413	-.337 5	.00101	.06984	.00264	-.00016	.00060
	GRADIENT	.00000	.00000	.00000	.000 0	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.6000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2663/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-19.994	625.040	199.94000	.17200	.13310	.01266	437.22000	.00000	.00000	654.34000	.00000	.00000
-20.054	700.250	200.14000	-.03332	.04328	-.07421	437.00000	.00000	.00000	654.01000	.00000	.00000
-20.002	800.000	199.93000	.10318	.03353	-.03732	435.33000	.00000	.00000	653.01000	.00000	.00000
-20.093	1001.600	200.20000	.03306	.03000	-.06348	435.62000	.00000	.00000	651.93000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2651/ 0 RN/L = .69 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.976	474.800	199.93000	.42843	.03485	.01338	429.60000	.00000	.00000	642.93000	.00000	.00000
-14.933	499.830	199.91000	-.23543	.02353	-.09756	428.11000	.00000	.00000	640.71000	.00000	.00000
-15.025	550.300	200.03000	.23318	.00719	-.10405	424.52000	.00000	.00000	635.33000	.00000	.00000
-15.040	600.540	200.07000	-.03976	.00191	-.05116	423.20000	.00000	.00000	633.36000	.00000	.00000
-15.052	700.810	200.22000	.05228	.02428	-.03094	423.70000	.00000	.00000	634.22000	.00000	.00000
-14.999	799.560	200.10000	.32339	.05731	-.04176	424.17000	.00000	.00000	634.81000	.00000	.00000
-15.046	1000.500	200.32000	-.03022	.03350	-.05174	425.30000	.00000	.00000	636.61000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.995	324.970	200.01000	-.09535	.03323	-.06017	439.20000	.00000	.00000	657.42000	.00000	.00000
-9.982	349.680	199.93000	-.02025	.01699	-.10978	439.54000	.00000	.00000	657.80000	.00000	.00000
-10.023	400.170	200.05000	-.09749	.00754	-.12876	439.25000	.00000	.00000	657.37000	.00000	.00000
-10.024	449.930	200.15[illegible]	-.44335	.01039	-.07672	438.55000	.00000	.00000	656.62000	.00000	.00000
-10.052	500.040	200.280[illegible]	-.02169	.00359	-.03570	438.52000	.00000	.00000	657.78000	.00000	.00000
-10.063	600.330	200.27000	.33331	.00213	-.00003	438.63000	.00000	.00000	658.25000	.00000	.00000
-10.078	700.780	200.40000	.18309	.00130	-.00048	440.52000	.00000	.00000	659.28000	.00000	.00000
-10.013	799.440	200.24000	.33210	.00034	-.01021	440.47000	.00000	.00000	659.20000	.00000	.00000
-9.929	999.610	200.13000	.00231	.00169	-.01426	440.53000	.00000	.00000	659.30000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK002) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2659/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.026	174.950	200.25000	.08537	-.00149	-.0581	435.59000	.00000	.00000	653.40000	.00000	.00000
-5.029	200.110	200.22000	.16635	.02341	-.0143	437.17000	.00000	.00000	654.26000	.00000	.00000
-4.992	249.640	200.28000	.08687	-.01567	-.0717	438.78000	.00000	.00000	656.67000	.00000	.00000
-5.045	300.210	200.30000	-.11180	-.05393	-.1202	440.42000	.00000	.00000	659.12000	.00000	.00000
-5.042	400.040	200.22000	-.08957	-.00323	-.0111	440.75000	.00000	.00000	659.62000	.00000	.00000
-5.057	500.330	200.27000	.05097	-.00230	-.0075	441.97000	.00000	.00000	661.45000	.00000	.00000
-5.032	600.530	200.30000	.34516	.00012	-.0103	440.40000	.00000	.00000	659.22000	.00000	.00000
-5.085	700.430	200.40000	.17803	-.00110	-.0133	440.03000	.00000	.00000	658.63000	.00000	.00000
-4.945	799.100	200.22000	-.00514	-.00125	-.0124	439.40000	.00000	.00000	657.60000	.00000	.00000
-4.971	903.990	200.18000	.14285	.00107	-.0143	438.84000	.00000	.00000	656.77000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2667/ 0 RN/L = .37 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.046	15.352	200.25000	.57422	.01158	.0070	435.82000	.00000	.00000	651.80000	.00000	.00000
-.050	50.577	200.22000	.62305	.00972	-.0024	436.22000	.00000	.00000	652.64000	.00000	.00000
-.020	100.030	200.23000	-.80259	.00631	-.0035	436.56000	.00000	.00000	653.34000	.00000	.00000
-.007	149.630	200.24000	.32167	-.00332	-.0055	436.33000	.00000	.00000	653.00000	.00000	.00000
-.050	160.430	200.23000	.33338	-.01637	-.0216	436.22000	.00000	.00000	652.94000	.00000	.00000
-.041	300.050	200.18000	.51028	-.02371	-.0161	435.22000	.00000	.00000	652.84000	.00000	.00000
-.057	400.170	200.22000	-.04033	-.00332	.0003	436.42000	.00000	.00000	653.19000	.00000	.00000
-.057	500.330	200.32000	.03335	-.00328	-.0018	436.62000	.00000	.00000	653.84000	.00000	.00000
-.020	600.210	200.42000	.10157	-.00091	-.0003	437.03000	.00000	.00000	654.09000	.00000	.00000
.028	753.930	200.42000	-.13331	-.00719	-.0030	437.54000	.00000	.00000	654.81000	.00000	.00000
.008	879.030	200.18000	.20409	-.00812	-.0046	437.76000	.00000	.00000	655.14000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER O4RC1) W/ET SEPARATING (UVK002) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1009.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2663/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-19.994	625.040	981.61000	981.61000	86.00000	981.61000	979.25999	69.00000	73.00000	8.96480	99.64200
-20.054	700.650	981.12000	981.12000	86.00000	981. 2000	979.25999	69.00000	73.00000	-2.74150	99.64200
-20.002	800.000	980.52000	980.52000	86.00000	980.52000	979.25999	69.00000	73.00000	-10.49400	99.64200
-20.095	1001.600	979.47000	979.47000	86.00000	979.47000	979.25999	69.00000	73.00000	-7.04200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2651/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.976	474.800	973.03000	973.03000	75.00000	973.03000	973.13000	77.00000	73.00000	2.96430	99.64200
-14.989	499.830	972.93000	972.93000	75.00000	972.93000	973.13000	77.00000	73.00000	-.36065	99.64200
-15.025	550.300	972.78000	972.78000	75.00000	972.78000	973.13000	77.00000	73.00000	-3.77750	99.64200
-15.040	600.540	973.03000	973.03000	75.00000	973.03000	973.13000	77.00000	73.00000	-7.47160	99.64200
-15.052	700.810	972.93000	972.93000	75.00000	972.93000	973.13000	77.00000	73.00000	-9.49590	99.64200
-14.999	799.550	972.92000	972.92000	75.00000	972.92000	973.13000	77.00000	73.00000	-7.80190	99.64200
-15.046	1000.500	973.33000	973.33000	75.00000	973.33000	973.13000	77.00000	73.00000	-3.42020	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.995	324.970	981.30000	981.30000	75.00000	981.30000	979.60000	78.00000	74.00000	1.26360	99.64200
-9.992	349.630	981.47000	981.47000	75.00000	981.47000	979.60000	78.00000	74.00000	2.08930	99.64200
-10.023	400.170	981.31000	981.31000	75.00000	981.31000	979.60000	78.00000	74.00000	-.41999	99.64200
-10.024	449.930	981.60000	981.60000	75.00000	981.60000	979.60000	78.00000	74.00000	-6.81980	99.64200
-10.052	500.040	980.92000	980.92000	75.00000	980.92000	979.60000	78.00000	74.00000	-12.86300	99.64200
-10.053	600.330	981.16000	981.16000	75.00000	981.16000	979.60000	78.00000	74.00000	-16.69700	99.64200
-10.078	700.780	980.75000	980.75000	75.00000	980.75000	979.60000	78.00000	74.00000	-16.37600	99.64200
-10.013	799.440	980.64000	980.64000	75.00000	980.64000	979.60000	78.00000	74.00000	-16.53000	99.64200
-9.929	903.510	979.81000	979.81000	75.00000	979.81000	979.60000	78.00000	74.00000	-14.92100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DSETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2659/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.026	174.950	978.27000	978.27000	74.00000	978.27000	982.14000	76.00000	72.00000	-7.12530	99.64200
-5.029	200.110	979.89000	979.89000	74.00000	979.89000	982.14000	76.00000	72.00000	-7.14250	99.64200
-4.992	249.640	981.71000	981.71000	74.00000	981.71000	982.14000	76.00000	72.00000	-9.08330	99.64200
-5.045	300.210	983.92000	983.92000	74.00000	983.92000	982.14000	76.00000	72.00000	-12.54000	99.64200
-5.042	400.040	983.69000	983.69000	74.00000	983.69000	982.14000	76.00000	72.00000	-17.40700	99.64200
-5.057	500.350	983.49000	983.49000	74.00000	983.49000	982.14000	76.00000	72.00000	-17.45900	99.64200
-5.052	600.530	983.03000	983.03000	74.00000	983.03000	982.14000	76.00000	72.00000	-17.39700	99.64200
-5.065	700.430	982.62000	982.62000	74.00000	982.62000	982.14000	76.00000	72.00000	-16.60100	99.64200
-4.945	799.100	982.62000	982.62000	74.00000	982.62000	982.14000	76.00000	72.00000	-15.55500	99.64200
-4.971	900.000	982.34000	982.34000	74.00000	982.34000	982.14000	76.00000	72.00000	-14.61700	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2667/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.046	15.352	977.32000	977.32000	77.00000	977.32000	976.80000	79.00000	74.00000	-12.33300	99.64200
-.050	50.577	977.43000	977.43000	77.00000	977.43000	976.80000	79.00000	74.00000	-11.51900	99.64200
-.020	100.080	977.22000	977.22000	77.00000	977.22000	976.80000	79.00000	74.00000	-10.88300	99.64200
-.007	149.630	977.20000	977.20000	77.00000	977.20000	976.80000	79.00000	74.00000	-11.26500	99.64200
-.050	160.430	977.10000	977.10000	77.00000	977.10000	976.80000	79.00000	74.00000	-12.93800	99.64200
-.041	300.050	976.99000	976.99000	77.00000	976.99000	976.80000	79.00000	74.00000	-17.12000	99.64200
-.057	400.170	976.99000	976.99000	77.00000	976.99000	976.80000	79.00000	74.00000	-17.91700	99.64200
-.057	500.330	977.00000	977.00000	77.00000	977.00000	976.80000	79.00000	74.00000	-16.87600	99.64200
-.020	600.210	976.99000	976.99000	77.00000	976.99000	976.80000	79.00000	74.00000	-16.18100	99.64200
.028	799.950	977.01000	977.01000	77.00000	977.01000	976.80000	79.00000	74.00000	-15.79400	99.64200
.008	879.030	977.01000	977.01000	77.00000	977.01000	976.80000	79.00000	74.00000	-15.62900	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK002) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.994	625.040	199.94000	.17200	-35.00900	-.00061	-.70055	-.10080	.02437	.00374	.00231	.12657
-20.054	700.850	200.14000	-.03352	-35.07100	-.00136	-.70341	-.10495	.02821	.00172	.00190	.12786
-20.002	800.000	199.90000	.10318	-35.02000	.00204	-.75799	-.07376	.02959	.00087	.00218	.13607
-20.095	1001.600	200.50000	.05306	-35.10900	-.00211	-.84733	-.01035	.03068	-.00139	.00214	.15664
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2651/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.976	474.800	199.93000	.42943	-29.99200	.00587	-.57335	-.08748	.01882	.00222	.00191	.12251
-14.999	499.880	199.92000	-.23543	-30.00300	-.00449	-.55436	-.10041	.01823	.00288	.00158	.11873
-15.025	550.300	200.06000	.20318	-30.04000	.00327	-.55430	-.10497	.02045	.00229	.00139	.11743
-15.040	600.540	200.07000	-.00376	-30.06000	-.00287	-.60460	-.09078	.02089	.00242	.00163	.12434
-15.052	700.810	200.22000	.08228	-30.08000	-.00328	-.68085	-.06718	.02352	.00081	.00170	.12733
-14.999	799.800	200.10000	.32209	-30.01100	.00376	-.69906	-.03089	.02397	-.00132	.00165	.13638
-15.046	1000.500	200.32000	-.00082	-30.06400	-.00534	-.75162	.03270	.02835	-.00317	.00161	.17698
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.935	324.970	200.01000	-.02235	-25.00800	.00164	-.47780	-.09748	.01620	.00080	.00117	.12559
-9.932	349.800	199.93000	-.00285	-24.99200	.00030	-.48251	-.07871	.01353	.00241	.00125	.11779
-10.023	400.170	200.07000	-.09749	-25.05400	-.00332	-.43169	-.09827	.01267	.00298	.00089	.10400
-10.024	449.950	200.18000	-.44335	-25.02000	-.00718	-.44453	-.09169	.01376	.00252	.00107	.10906
-10.052	500.040	200.20000	-.02169	-25.03000	-.00335	-.46181	-.09277	.01664	.00157	.00107	.11239
-10.063	600.330	200.27000	.33031	-25.07400	.00151	-.49302	-.06061	.01655	.00018	.00123	.11563
-10.078	700.780	200.48000	.15009	-25.09300	-.00003	-.53044	-.03221	.02021	-.00138	.00119	.12935
-10.013	799.440	200.24000	.98210	-25.02000	.01452	-.57393	.00180	.02092	-.00264	.00111	.14895
-9.929	909.610	200.13000	.00231	-24.93000	.00330	-.60147	.04354	.02052	-.00448	.00127	.18311
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPAR\TING FROM ORB (O4RC1) (AVK002) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0300 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMOLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2659/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.026	174.550	200.28000	.02537	-20.01600	.00140	-.34604	-.07046	.00798	.00082	.00054	.10814
-5.029	200.110	200.22000	.10935	-20.02400	.00322	-.35013	-.07493	.01070	.00055	.00039	.10834
-4.992	248.640	200.[illegible]	.00037	-19.[illegible]	.00004	-.37412	-.07416	.01068	.00128	.00055	.10790
-5.045	300.210	200.[illegible]	-.1[illegible]	-20.[illegible]	-.00037	-.35030	-.[illegible]	.01126	.00179	.00050	.10026
-5.042	400.040	200.22000	-.02537	-20.02800	-.00003	-.35039	-.07892	.01228	.00068	.00069	.10658
-5.057	500.330	200.27000	.05097	-20.03800	-.00135	-.37945	-.08085	.01202	.00074	.00056	.11039
-5.062	600.530	200.33000	.34516	-20.03000	.00034	-.41402	-.[illegible]	.01[illegible]	-.00049	.00081	.12823
-5.035	700.430	200.4[illegible]	.17233	-20.07100	.00103	-.44239	.00243	.01301	-.00155	.00062	.13301
-4.545	799.100	200.[illegible]	-.00314	-19.[illegible]100	.00413	-.4[illegible]	.[illegible]	.01207	-.00347	.00069	.15364
-4.971	[illegible]	200.[illegible]	.14[illegible]	-19.97700	.00332	-.35107	-.01[illegible]	.00781	.00025	.00029	.12996
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2657/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.046	15.352	200.28000	.57422	-15.01400	.01107	-.27281	-.07087	.00120	.00124	.00058	.09859
-.030	50.577	200.22000	.[illegible]	-15.02700	.01003	-.2[illegible]	-.07397	-.00090	.00191	.00040	.09765
-.020	100.030	200.23000	-.[illegible]	-15.03000	-.00035	-.25710	-.03587	.00114	.00210	.00022	.09817
-.007	149.630	200.24000	.29167	-15.03000	.[illegible]	-.2[illegible]	-.[illegible]	.00315	.00237	.00035	.10133
-.030	199.490	200.23000	.30033	-15.03100	.[illegible]	-.2[illegible]	-.00040	.00342	.00130	.00035	.09397
-.041	300.650	200.19000	.51028	-15.03000	.[illegible]	-.20700	-.[illegible]	.00[illegible]	.00187	.00042	.09984
-.057	400.170	200.[illegible]	-.04033	-15.03400	-.[illegible]	-.23734	-.03747	.00039	.00125	.00050	.10682
-.057	500.350	200.32000	.00336	-15.03300	-.00031	-.30704	-.01732	.00223	-.00012	.00048	.11389
-.020	600.210	200.42000	.16137	-15.03300	.00225	-.32455	.00441	.00228	-.00092	.00032	.12525
.028	799.930	200.42000	-.13381	-14.97000	.00302	-.2[illegible]	.00136	.00305	-.00092	.00040	.13277
.008	879.030	200.18000	.20409	-14.93000	.00217	-.23725	-.02230	.00504	.00089	.00006	.10953
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER((HRC1) W/ET SEPARATING (RVK003) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2664/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.034	625.440	400.18000	-.16192	.00036	.19985	-.03788	-.00402	.00031	.00180	.01159	.23451
-20.011	700.230	400.12000	.19063	.00722	.12700	-.03032	-.00470	.00050	.00093	.01064	.23451
-19.963	799.820	399.92000	.42639	.00984	.09219	-.02432	-.00449	.00046	-.00086	.01412	.23420
-19.922	998.940	399.62000	.05150	.00629	.04515	-.01555	-.00363	.00106	.00015	.02301	.23454
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2652/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.013	475.210	400.08000	.02554	.00101	.18742	-.03346	-.00190	.00037	.00117	.01697	.23389
-15.024	500.320	400.16000	.04487	.00539	.15223	-.02938	-.00223	.00048	.00112	.01846	.23374
-15.025	550.430	400.18000	-.34244	-.00818	.10927	-.02593	-.00157	.00078	.00053	.02039	.23412
-14.995	599.930	400.02000	-.03937	.00148	.09090	-.02484	-.00094	.00054	.00035	.01797	.23376
-14.953	699.670	399.93000	-.07306	.00449	.06067	-.01956	-.00272	.00113	.00062	.02299	.23418
-14.979	799.750	399.94000	.02034	.00431	.03570	-.01473	-.00304	.00111	.00051	.02650	.23433
-15.002	999.740	400.34000	.00257	.00243	-.00009	-.01006	-.00392	.00092	.00059	.02792	.23432
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.045	325.740	400.1 000	-.19599	-.00025	.18332	-.02280	-.00314	.00054	.00127	.02306	.23599
-10.000	349.950	400.0 000	-.40024	-.00483	.17223	-.02365	-.00343	.00059	.00112	.02460	.23655
-10.040	400.240	400.01000	.35915	.00525	.12300	-.02333	-.00446	.00088	.00098	.02391	.23670
-10.022	449.330	399.97000	.02350	-.00302	.08758	-.02335	-.00290	.00081	.00046	.02085	.23625
-10.004	499.610	400.20000	-.09408	.00211	.06307	-.02285	-.00290	.00086	.00020	.02024	.23658
-9.975	599.210	399.93000	.11945	.00338	.03979	-.01570	-.00346	.00109	.00060	.02456	.23646
-9.998	699.330	400.05000	.05758	.00511	.01556	-.01253	-.00398	.00091	.00044	.02594	.23666
-9.982	799.760	400.04000	.05506	.00453	-.00781	-.00699	-.00416	.00066	.00056	.02719	.23669
-10.027	999.610	400.25000	.58339	.01229	-.00705	-.00999	-.00446	.00089	.00055	.02729	.23698
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(C4RC1) W/ET SEPARATING (RVK003) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1250.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2660/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-5.020	174.880	400.15000	.38392	.00821	.14953	-.00411	-.00236	.00022	.00115	.02842	.23470
-5.006	199.510	400.05000	-.30395	-.00898	.14642	-.00770	-.00315	.00057	.00103	.03061	.23414
-4.988	249.190	400.10000	.07610	-.00066	.12869	-.01517	-.00382	.00091	.00096	.03166	.23540
-5.035	299.870	400.13000	-.09226	.00894	.10833	-.01945	-.00351	.00098	.00060	.02894	.23676
-5.015	399.440	400.10000	-.22215	.00919	.05106	-.02104	-.00403	.00068	.00049	.02376	.23460
-4.988	499.180	400.12000	.14183	.00868	.02382	-.01947	-.00379	.00103	.00043	.02669	.23459
-4.979	599.020	400.18000	.05550	.00338	-.00750	-.01023	-.00429	.00083	.00055	.02825	.23421
-4.965	699.780	400.22000	-.27412	-.00040	-.00913	-.01004	-.00434	.00084	.00054	.02848	.23459
-4.961	799.560	400.16000	.17209	.00723	-.00934	-.01003	-.00441	.00084	.00054	.02854	.23468
-4.951	997.780	399.72000	.30396	.00338	-.00846	-.01001	-.00433	.00066	.00054	.02828	.23644
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.015	14.166	400.23000	.01124	.00150	.12859	.02199	-.00321	.00023	.00081	.03485	.23517
.024	48.693	400.21000	.15167	.00409	.11502	.01118	-.00351	.00019	.00064	.03247	.23520
.027	99.242	400.16000	.40275	.00231	.11602	.00040	-.00464	.00035	.00098	.03163	.23547
.006	149.270	400.17000	.44518	.00599	.10794	-.00764	-.00475	.00035	.00096	.03135	.23523
-.009	159.530	400.16000	.52434	.00934	.10456	-.00975	-.00486	.00068	.00090	.03109	.23535
-.026	299.500	400.22000	-.05485	-.00040	.04502	-.01974	-.00445	.00077	.00064	.02363	.23541
.013	393.930	400.23000	-.18283	.00337	.01424	-.01260	-.00458	.00082	.00040	.02574	.23517
.025	493.760	400.22000	-.04877	.00161	-.00034	-.00034	-.00473	.00075	.00054	.02691	.23535
.027	593.740	400.23000	-.16527	.00292	-.00269	-.00995	-.00483	.00076	.00053	.02692	.23547
.054	797.820	400.37000	-.34147	.00028	-.00599	-.00993	-.00488	.00074	.00053	.02697	.23518
-.054	959.510	399.81000	.27257	.00308	-.00950	-.00999	-.00500	.00075	.00054	.02720	.23550
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22',ORBITER(04RC1) W/ET SEPARATING (SVK003) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2664/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.034	625.440	-15.02100	-.00180	.00036	-.13007	-.02704	.05510	.00329	-.00062	.00184
-20.011	700.230	-15.01800	-.00192	.00722	-.20344	-.01946	.05422	.00262	-.00043	.00098
-19.983	793.820	-15.01400	-.00180	.00934	-.23771	-.01348	.05763	.00283	-.00047	-.00092
-19.922	993.940	-15.00700	-.00236	.00829	-.28437	-.00472	.06547	.00367	.00013	.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2652/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.013	473.210	-15.01000	-.00185	.00101	-.13782	-.02277	.05036	.00530	-.00055	.00121
-15.024	500.320	-15.01600	-.00192	.00533	-.17319	-.01839	.06137	.00498	-.00043	.00116
-15.025	539.430	-15.01500	-.00221	-.00218	-.21826	-.01524	.03333	.00554	-.00014	.00057
-14.995	599.930	-15.01500	-.00207	.00148	-.24477	-.01413	.03022	.00638	-.00027	.00039
-14.953	693.670	-15.01200	-.00250	.00449	-.28547	-.00914	.06500	.00450	.00021	.00066
-14.979	793.750	-15.00900	-.00240	.00431	-.29162	-.00387	.03038	.00421	.00018	.00056
-15.002	999.740	-15.00300	-.00214	.00243	-.33749	.00074	.07125	.00346	-.00000	.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.045	325.740	-15.00800	-.00187	-.00025	-.14214	-.01190	.03681	.00421	-.00040	.00131
-10.000	349.950	-15.01000	-.00192	-.00483	-.15933	-.01275	.05835	.00392	-.00036	.00116
-10.040	400.240	-15.01200	-.00223	.00525	-.20556	-.01243	.06735	.00289	-.00005	.00103
-10.022	449.930	-15.01400	-.00220	-.00092	-.24678	-.01205	.06455	.00444	-.00013	.00050
-10.004	499.610	-15.01400	-.00224	.00211	-.26508	-.01168	.06391	.00444	-.00007	.00025
-9.973	599.210	-15.01200	-.00238	.00038	-.29107	-.00483	.06319	.00387	.00015	.00065
-9.993	699.330	-15.00900	-.00215	.00611	-.31555	-.00165	.05230	.00336	-.00003	.00049
-9.992	799.730	-15.00600	-.00202	.00453	-.33521	.00026	.07076	.00316	-.00007	.00061
-10.027	999.610	-15.00300	-.00211	.01229	-.33756	.00087	.07038	.00286	-.00004	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK003) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2660/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.020	174.890	-14.99280	-.00130	.00221	-.17958	.00671	.07182	.00493	-.00071	.00120
-5.006	199.510	-14.99350	-.00170	-.00293	-.18223	.00310	.07396	.00413	-.00036	.00108
-4.988	249.190	-15.00420	-.00216	-.00065	-.20008	-.00436	.07502	.00347	-.00002	.00100
-5.036	299.870	-15.00910	-.00230	.00094	-.22284	-.00383	.07235	.00358	.00005	.00065
-5.015	349.440	-15.01310	-.00223	.00019	-.27030	-.01021	.06724	.00327	-.00005	.00053
-4.958	498.180	-15.00760	-.00229	.00098	-.30343	-.00285	.07011	.00351	.00010	.00047
-4.979	598.020	-15.00370	-.00203	.00338	-.33331	.00056	.07155	.00298	-.00009	.00059
-4.995	698.730	-15.00330	-.00204	-.00040	-.33751	.00075	.07179	.00294	-.00009	.00058
-4.981	798.330	-15.00330	-.00204	.00723	-.33738	.00075	.07181	.00296	-.00008	.00059
-4.951	897.780	-15.00330	-.00205	.00009	-.33763	.00080	.07169	.00296	-.00007	.00058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.015	14.185	-14.97012	-.00086	.00150	-.20172	.03278	.07816	.00407	-.00070	.00085
.024	48.693	-14.99831	-.00105	.00409	-.21334	.02153	.07550	.00377	-.00074	.00068
.027	99.242	-14.99015	-.00135	.00031	-.21659	.01120	.07497	.00284	-.00058	.00102
.006	149.270	-14.99377	-.00178	.00539	-.22047	.00335	.07467	.00253	-.00027	.00100
-.009	199.530	-15.00017	-.00164	.00934	-.22372	.00103	.07439	.00241	-.00025	.00094
-.025	299.530	-15.01288	-.00208	-.00040	-.22389	-.00034	.06997	.00283	-.00016	.00089
.013	303.930	-15.00377	-.00205	.00337	-.31405	-.00171	.06904	.00269	-.00010	.00045
.025	453.780	-15.00329	-.00194	.00161	-.32533	.00082	.07011	.00252	-.00018	.00059
.027	503.740	-15.00304	-.00195	.00282	-.32951	.00082	.07014	.00244	-.00016	.00058
.054	797.820	-15.03339	-.00193	.00223	-.32337	.00083	.07015	.00238	-.00018	.00058
-.054	959.510	-15.00339	-.00194	.00308	-.32843	.00075	.07030	.00224	-.00017	.00058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK003) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375[illegible].000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2664/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.034	625.440	400.18000	-.16192	.06588	-.11402	436.72000	.00000	.00000	653.59000	.00000	.00000
-20.011	700.230	400.12000	.19083	.05254	-.10737	437.40000	.00000	.00000	654.61000	.00000	.00000
-19.983	799.620	399.92000	.42639	.05071	-.08051	436.68000	.00000	.00000	653.52000	.00000	.00000
-19.922	999.940	399.62000	.05150	.03935	-.06435	436.18000	.00000	.00000	652.78000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2652/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.013	475.210	400.08000	.02554	.03467	-.12207	430.61000	.00000	.00000	644.29000	.00000	.00000
-15.024	500.320	400.16000	.04487	.02822	-.12532	430.75000	.00000	.00000	644.69000	.00000	.00000
-15.025	550.430	400.19000	-.34244	.02183	-.12719	431.04000	.00000	.00000	645.09000	.00000	.00000
-14.985	599.900	400.02000	-.00857	.03795	-.09203	431.02000	.00000	.00000	645.15000	.00000	.00000
-14.933	699.670	399.93000	-.07306	.04871	-.06837	431.71000	.00000	.00000	646.09000	.00000	.00000
-14.979	799.750	399.94000	.02654	.04651	-.05618	433.28000	.00000	.00000	648.44000	.00000	.00000
-15.002	999.740	400.34000	.09257	.03408	-.05539	434.95000	.00000	.00000	650.95000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.045	325.740	400.16000	-.19599	.00827	-.09903	439.14000	.00000	.00000	657.22000	.00000	.00000
-10.000	349.950	400.01000	-.40024	-.00932	-.12693	438.15000	.00000	.00000	657.23000	.00000	.00000
-10.040	400.240	400.01000	.33915	.00436	-.11577	439.02000	.00000	.00000	657.03000	.00000	.00000
-10.022	449.930	399.97000	.02850	.02694	-.09833	438.61000	.00000	.00000	655.42000	.00000	.00000
-10.004	499.610	400.20000	-.09408	.04172	-.08539	438.34000	.00000	.00000	656.02000	.00000	.00000
-9.975	559.210	399.92000	.11545	.03915	-.08223	437.93000	.00000	.00000	655.43000	.00000	.00000
-9.998	699.330	400.02000	.03758	.02040	-.05077	439.25000	.00000	.00000	655.93000	.00000	.00000
-9.992	793.730	400.04000	.08906	.01905	-.04213	437.35000	.00000	.00000	654.53000	.00000	.00000
-10.027	999.610	400.26000	.50859	.01054	-.02935	437.44000	.00000	.00000	654.67000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK003) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2660/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.020	174.880	400.15000	.36392	.02760	-.000 0	435.65000	.00000	.00000	651.98000	.00000	.00000
-5.005	199.510	400.05000	-.30385	.01273	-.019 2	435.04000	.00000	.00000	651.07000	.00000	.00000
-4.988	249.190	400.10000	.07610	-.01881	-.062 3	435.19000	.00000	.00000	651.30000	.00000	.00000
-5.036	299.870	400.13000	-.08836	-.02702	-.065 4	435.73000	.00000	.00000	652.10000	.00000	.00000
-5.015	399.440	400.18000	-.22215	.01682	-.038 0	436.37000	.00000	.00000	653.06000	.00000	.00000
-4.988	499.180	400.12000	.14183	.02421	-.037 4	435.83000	.00000	.00000	652.25000	.00000	.00000
-4.979	599.020	400.16000	.05550	.01889	-.033 8	434.53000	.00000	.00000	650.40000	.00000	.00000
-4.955	699.760	400.22000	-.27412	.01528	-.035 7	434.69000	.00000	.00000	650.54000	.00000	.00000
-4.981	799.550	400.16000	.17209	.01130	-.030 6	434.23000	.00000	.00000	649.87000	.00000	.00000
-4.951	937.760	399.72000	.30385	.00560	-.023 0	435.73000	.00000	.00000	652.10000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.000 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.015	14.166	400.23000	.01124	.00009	.011 4	434.71000	.00000	.00000	650.59000	.00000	.00000
.024	48.693	400.21000	.15167	-.00307	.004 1	434.52000	.00000	.00000	650.69000	.00000	.00000
.027	99.242	400.18000	.40275	-.00103	.012 1	434.52000	.00000	.00000	650.52000	.00000	.00000
.006	149.270	400.17000	.44618	-.01221	.004 4	434.71000	.00000	.00000	650.59000	.00000	.00000
-.009	159.530	400.18000	.53464	-.01739	-.003 2	434.54000	.00000	.00000	650.32000	.00000	.00000
-.026	299.500	400.23000	-.09485	-.03033	-.048 9	434.92000	.00000	.00000	650.52000	.00000	.00000
.013	359.950	400.23000	-.10333	.00557	-.003 9	434.53000	.00000	.00000	650.36000	.00000	.00000
.025	498.760	400.23000	-.04877	.00293	-.015 0	433.57000	.00000	.00000	648.87000	.00000	.00000
.027	599.740	400.25000	-.18527	.00128	-.015 9	433.81000	.00000	.00000	649.23000	.00000	.00000
.064	797.920	400.37000	-.34147	-.00304	-.010 0	433.36000	.00000	.00000	648.56000	.00000	.00000
-.054	959.510	399.81000	.27257	-.00550	-.007 8	432.62000	.00000	.00000	647.45000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.000 0	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-20.034	625.440	991.45000	991.45000	82.00000	981.45000	991.23000	69.00000	74.00000	16.86800	99.64200
-20.011	700.230	991.53000	981.53000	82.00000	991.53000	981.23000	69.00000	74.00000	12.76400	99.64200
-19.993	758.820	990.87000	990.87000	82.00000	990.87000	991.23000	69.00000	74.00000	3.58860	99.64200
-19.922	800.940	990.72000	990.72000	82.00000	990.72000	991.23000	69.00000	74.00000	-6.66930	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2682/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-15.013	475.210	973.19000	973.19000	75.00000	973.19000	972.[illegible]000	77.00000	73.00000	7.50160	99.64200
-15.024	500.880	973.27000	973.27000	75.00000	973.27000	972.[illegible]300	77.00000	73.00000	7.03350	99.64200
-15.025	539.430	973.44000	973.44000	75.00000	973.44000	972.[illegible]000	77.00000	73.00000	6.15090	99.64200
-14.993	600.900	973.[illegible]000	973.[illegible]000	75.00000	973.[illegible]000	972.[illegible]000	77.00000	73.00000	5.44510	99.64200
-14.993	603.370	973.[illegible]000	973.[illegible]000	75.00000	973.[illegible]000	972.[illegible]000	77.00000	73.00000	2.68470	99.64200
-14.979	705.730	973.72000	973.72000	75.00000	973.72000	972.[illegible]000	77.00000	73.00000	-.72836	99.64200
-15.002	853.740	974.13000	974.13000	75.00000	974.13000	972.[illegible]000	77.00000	73.00000	-5.39320	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2655/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-10.045	325.740	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	-.81191	99.64200
-10.000	349.930	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	-.06900	99.64200
-10.040	400.240	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	1.87700	99.64200
-10.022	449.900	992.31000	992.31000	75.00000	992.31000	991.[illegible]000	77.00000	73.00000	2.67370	99.64200
-10.004	493.510	992.19000	992.19000	75.00000	992.19000	991.[illegible]000	77.00000	73.00000	3.10460	99.64200
-9.975	553.210	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	-1.54390	99.64200
-9.993	600.350	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	-5.77200	99.64200
-9.982	750.780	992.[illegible]000	992.[illegible]000	75.00000	992.[illegible]000	991.[illegible]000	77.00000	73.00000	-8.33320	99.64200
-10.027	900.510	993.[illegible]000	993.[illegible]000	75.00000	993.[illegible]000	991.[illegible]000	77.00000	73.00000	-12.33300	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK003) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.0000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2660/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-5.020	174.880	975.19000	975.19000	73.00000	975.19000	974.99999	76.00000	72.00000	-6.94880	99.64200
-5.006	199.510	974.78000	974.78000	73.00000	974.78000	974.99999	76.00000	72.00000	-7.50090	99.64200
-4.988	249.190	974.65000	974.65000	73.00000	974.65000	974.99999	76.00000	72.00000	-8.01790	99.64200
-5.036	299.870	976.81000	976.81000	73.00000	976.81000	974.99999	76.00000	72.00000	-7.71900	99.64200
-5.015	399.440	978.25000	978.25000	73.00000	978.25000	974.99999	76.00000	72.00000	-3.88820	99.64200
-4.988	499.180	975.59000	975.59000	73.00000	975.59000	974.99999	76.00000	72.00000	-4.24380	99.64200
-4.979	599.020	974.26000	974.26000	73.00000	974.26000	974.99999	76.00000	72.00000	-7.10320	99.64200
-4.965	698.780	973.51000	973.51000	73.00000	973.51000	974.99999	76.00000	72.00000	-10.01100	99.64200
-4.961	799.550	972.92000	972.92000	73.00000	972.92000	974.99999	76.00000	72.00000	-11.93900	99.64200
-4.951	997.780	976.33000	976.33000	73.00000	976.33000	974.99999	76.00000	72.00000	-13.53200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-.015	14.166	977.90000	977.90000	76.00000	977.90000	977.67999	79.00000	74.00000	-16.27300	99.64200
.024	48.693	977.85000	977.85000	76.00000	977.85000	977.67999	79.00000	74.00000	-16.16300	99.64200
.027	99.242	978.02000	978.02000	76.00000	978.02000	977.67999	79.00000	74.00000	-15.92900	99.64200
.006	149.270	977.90000	977.90000	76.00000	977.90000	977.67999	79.00000	74.00000	-15.57900	99.64200
-.009	199.530	977.90000	977.90000	76.00000	977.90000	977.67999	79.00000	74.00000	-15.13500	99.64200
-.026	299.500	978.02000	978.02000	76.00000	978.02000	977.67999	79.00000	74.00000	-11.53300	99.64200
.013	398.950	978.04000	978.04000	76.00000	978.04000	977.67999	79.00000	74.00000	-8.26310	99.64200
.025	498.760	978.20000	978.20000	76.00000	978.20000	977.67999	79.00000	74.00000	-9.82020	99.64200
.027	598.740	977.78000	977.78000	76.00000	977.78000	977.67999	79.00000	74.00000	-11.78600	99.64200
.064	797.820	977.72000	977.72000	76.00000	977.72000	977.67999	79.00000	74.00000	-13.30000	99.64200
-.054	959.510	977.97000	977.97000	76.00000	977.97000	977.67999	79.00000	74.00000	-14.14200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (1A22),ET SEPARATING FROM ORB (04RC1) (AVK003) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2664/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.034	625.440	400.18000	-.16192	-35.05500	-.0014[illegible]	-.66937	-.12319	.02457	.00405	.00214	.11616
-20.011	700.230	400.12000	.19063	-35.02900	.0053[illegible]	-.66540	-.12773	.02740	.00289	.00167	.11884
-19.563	799.820	399.92000	.42639	-34.97700	.0080[illegible]	-.72619	-.09309	.02788	.00184	.00192	.13709
-19.922	998.940	399.62000	.05150	-34.93000	.0039[illegible]	-.79585	-.05047	.03105	-.00027	.00197	.14022
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2652/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.013	475.210	400.06000	.02554	-30.03100	-.0008[illegible]	-.56575	-.09537	.01927	.00291	.00183	.12896
-15.024	500.320	400.16000	.04487	-30.04000	.0034[illegible]	-.54868	-.10550	.02119	.00154	.00169	.11994
-15.025	550.430	400.18000	-.34244	-30.04000	-.0103[illegible]	-.54187	-.11557	.01782	.00441	.00125	.10776
-14.995	599.930	400.02000	-.03937	-30.01000	-.0005[illegible]	-.55014	-.11204	.01781	.00447	.00149	.11574
-14.963	699.670	399.98000	-.07306	-29.97500	.0019[illegible]	-.60201	-.06505	.02121	.00277	.00188	.13417
-14.979	799.750	399.94000	.02024	-29.99700	.0019[illegible]	-.63303	-.06772	.02205	.00167	.00164	.12572
-15.002	999.740	400.34000	.09257	-30.00300	.0003[illegible]	-.70821	-.00545	.02505	-.00174	.00154	.15208
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2656/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.045	325.740	400.16000	-.19699	-25.05300	-.0021[illegible]	-.47105	-.08190	.01157	.00103	.00100	.12554
-10.000	349.950	400.01000	-.40024	-25.01000	-.0067[illegible]	-.47536	-.08040	.01278	.00159	.00115	.12928
-10.040	400.240	400.01000	.35915	-25.03300	.0030[illegible]	-.44755	-.09735	.01306	.00248	.00114	.11432
-10.022	449.930	399.97000	.02650	-25.03000	-.0030[illegible]	-.42039	-.10535	.01169	.00453	.00085	.10669
-10.004	499.610	400.20000	-.09403	-25.01900	-.0001[illegible]	-.44093	-.10110	.01327	.00396	.00107	.11317
-9.975	559.210	399.93000	.11945	-24.99300	.0053[illegible]	-.49311	-.07544	.01542	.00172	.00124	.12231
-9.938	699.330	400.05000	.05758	-25.00500	.0029[illegible]	-.50121	-.06399	.01738	.00057	.00116	.12027
-9.962	798.760	400.04000	.06906	-24.99300	.0024[illegible]	-.53488	-.03534	.01787	-.00061	.00113	.12766
-10.027	999.610	400.25000	.59869	-25.03300	.0101[illegible]	-.59990	.02657	.01854	-.00292	.00100	.16327
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK003) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2660/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.020	174.880	400.15000	.36392	-20.01300	.00691	-.35226	-.08179	.00136	.00043	.00028	.11041
-5.006	199.510	400.05000	-.30395	-20.00200	-.00469	-.36193	-.07661	.00130	.00108	.00035	.11191
-4.988	249.190	400.10000	.07610	-19.98200	-.00282	-.37438	-.06880	-.00153	.00296	.00044	.11409
-5.036	299.870	400.13000	-.08986	-20.04500	-.00136	-.35578	-.00295	.00090	.00339	.00061	.10857
-5.015	399.440	400.18000	-.28215	-20.02900	-.00204	-.33956	-.08936	.01102	.00216	.00073	.10602
-4.988	499.180	400.12000	.14183	-19.99200	.00370	-.33571	-.07072	.01343	.00139	.00078	.10650
-4.979	599.020	400.18000	.05550	-19.98300	.00134	-.33563	-.05288	.01087	.00113	.00075	.11357
-4.965	698.780	400.22000	-.27412	-19.97100	-.00244	-.41392	-.02853	.01221	.00002	.00071	.12168
-4.961	798.550	400.16000	.17209	-19.96700	.00519	-.43838	-.00203	.01228	-.00125	.00066	.13410
-4.951	997.790	399.72000	.30396	-19.95500	.00692	-.44611	.02709	.01319	-.00324	.00079	.10348
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.015	14.166	400.23000	.01124	-14.98300	.00054	-.26425	-.08457	.00254	.00090	.00036	.10856
.024	48.693	400.21000	.15167	-14.95500	.00303	-.26857	-.07532	.00290	.00083	.00021	.10604
.027	99.242	400.16000	.40275	-14.95400	.00696	-.27470	-.06542	.00161	.00070	.00009	.10634
.006	149.270	400.17000	.44518	-14.99300	.00421	-.28397	-.05934	-.00375	.00224	.00013	.10664
-.009	159.530	400.16000	.53464	-15.00900	.00750	-.28350	-.06014	-.00360	.00253	.00014	.10634
-.026	299.500	400.22000	-.09486	-15.03300	-.00248	-.25703	-.07611	.00462	.00261	.00049	.10149
.013	398.950	400.23000	-.10393	-14.99400	.00132	-.26791	-.06014	.00367	.00157	.00048	.10152
.025	498.760	400.26000	-.04877	-14.98100	-.00033	-.28575	-.04100	.00550	.00162	.00045	.10768
.027	598.740	400.23000	-.16527	-14.97900	.00097	-.30409	-.02142	.00875	.00010	.00040	.11466
.064	797.820	400.37000	-.34147	-14.94100	-.00165	-.32479	.01479	.00894	-.00151	.00032	.13678
-.054	959.510	399.81000	.27257	-15.06000	.00114	-.26035	-.01383	.00624	.00002	.00025	.12098
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(D4RC1) W/ET SEPARATING (RVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1280.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2665/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-19.983	624.970	600.02000	-.69054	-.00830	.11901	-.02829	-.00447	.00056	.00089	.01057	.23485
-20.012	700.020	599.91000	-.49317	-.00718	.03352	-.02402	-.00148	.00061	.00037	.01309	.23497
-20.052	800.930	600.37000	-.06767	-.00545	.05477	-.01909	-.00329	.00101	.00094	.02018	.23500
-20.065	1001.000	600.38000	.37295	.00313	-.03056	-.01086	-.00413	.00078	.00052	.02419	.23483
	GRADIENT	.00000	.00000	.00000	.03000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.001	475.220	600.08000	.05031	.00357	.13294	-.02802	-.00411	.00069	.00038	.01894	.23460
-14.997	500.080	600.07000	.51555	.00339	.11837	-.02653	-.00394	.00075	.00064	.01848	.23473
-14.986	549.850	599.93000	-.73061	-.00194	.03767	-.02459	-.00204	.00080	.00059	.01850	.23480
-15.011	600.070	600.10000	-.24543	-.00480	.05036	-.02178	-.00214	.00085	.00033	.01985	.23469
-15.039	700.470	599.75000	-.27724	-.00055	.04833	-.01831	-.00325	.00116	.00076	.02506	.23476
-15.069	800.940	599.95000	.27052	-.00060	.01518	-.01257	-.00359	.00096	.00046	.02663	.23488
-15.073	1000.700	599.93000	.00148	-.00175	-.03833	-.01001	-.00391	.00091	.00058	.02792	.23482
	GRADIENT	.00000	.00000	.00000	.03000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2657/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.012	325.290	600.13000	-.00378	.00215	.13039	-.02074	-.00349	.00090	.00077	.02865	.23776
-10.024	350.320	600.16000	-.06722	.00207	.12072	-.02169	-.00410	.00099	.00070	.0272	.23768
-10.006	399.930	599.60000	.14789	.00497	.03462	-.02335	-.00358	.00099	.00031	.02434	.23741
-9.995	449.740	599.91000	-.03412	.00709	.07330	-.02346	-.00273	.00084	.00059	.02113	.23741
-10.025	500.140	599.75000	-.00080	.00054	.05699	-.02132	-.00330	.00100	.00059	.02201	.23735
-10.034	599.640	599.81000	.07241	-.00273	.01291	-.01442	-.00351	.00105	.00054	.02580	.23730
-10.050	700.160	599.83000	.05570	-.00345	-.01180	-.01075	-.00410	.00035	.00050	.02719	.23719
-10.005	799.370	599.77000	-.04497	.00244	-.01803	-.00889	-.00433	.00089	.00055	.02758	.23702
-10.079	1000.700	599.93000	.02851	.00080	-.01775	-.00994	-.00416	.00068	.00056	.02728	.23691
	GRADIENT	.00000	.00000	.00000	.03000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2661/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.021	175.080	600.09000	-.15700	.00072	.12502	-.00719	-.00221	.00022	.00092	.02753	.23381
-5.021	200.070	600.10000	.04691	.00549	.12400	-.01084	-.00321	.00051	.00092	.02862	.23399
-5.026	249.910	599.89000	.18000	.00340	.11184	-.01662	-.00373	.00086	.00071	.02894	.23344
-4.986	299.430	599.74000	.03197	.00906	.08715	-.02160	-.00393	.00086	.00055	.02471	.23389
-5.025	393.650	599.75000	.00953	.00205	.06097	-.02019	-.00408	.00087	.00039	.02129	.23354
-5.031	500.050	599.82000	.54318	.00626	.03834	-.01392	-.00325	.00093	.00043	.02328	.23337
-5.054	600.020	599.78000	.23705	.00479	-.01600	-.01015	-.00434	.00077	.00053	.02436	.23334
-5.060	700.230	599.93000	.08474	.00131	-.03501	-.01002	-.00449	.00077	.00053	.02415	.23606
-5.015	799.280	599.77000	.05429	.00355	-.01700	-.00939	-.00432	.00079	.00054	.02482	.23628
-5.039	1000.100	599.77000	.34928	.00471	-.01874	-.00959	-.00442	.00086	.00053	.02825	.23623
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2669/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.023	15.414	600.36000	1.33390	.02165	.13434	.01472	-.00332	.00044	.00082	.02815	.23549
-.007	49.303	600.21000	-.54889	-.00402	.03823	.00844	-.00296	.00045	.00078	.02846	.23540
-.020	99.625	600.23000	.06842	.00275	.01115	-.00050	-.00308	.00010	.00081	.03024	.23561
-.017	149.690	600.20000	.13786	.00320	.01806	-.00774	-.00404	.00057	.00097	.03088	.23544
-.009	199.810	599.78000	.30089	.01101	.01557	-.00949	-.00441	.00070	.00092	.03075	.23546
-.017	299.620	599.79000	.04447	.00150	.01074	-.01176	-.00469	.00077	.00046	.02427	.23503
-.039	399.630	599.82000	.30514	.00877	.00744	-.01320	-.00453	.00084	.00037	.02623	.23553
-.061	500.280	599.81000	.01440	.00130	-.01975	-.01006	-.00504	.00077	.00053	.02735	.23537
-.013	599.320	599.82000	.82654	.01425	-.01837	-.01002	-.00498	.00073	.00053	.02732	.23553
-.058	800.350	599.93000	-.01642	.00028	-.01934	-.01004	-.00493	.00073	.00053	.02721	.23589
.020	953.870	599.94000	-.35808	-.00051	-.01933	-.01002	-.00499	.00073	.00053	.02719	.23523
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBI ER(O4RC1) W/ET SEPARATING (SVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	378.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2665/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.983	624.970	-15.01700	-.00195	-.00630	-.21119	-.01744	.05412	.00285	-.00038	.00093
-20.012	700.020	-15.01400	-.00202	-.00718	-.24636	-.01319	.05659	.00583	-.00032	.00042
-20.062	800.990	-15.01000	-.00235	-.00546	-.23471	-.00826	.00364	.00401	.00008	.00099
-20.065	1001.000	-15.00300	-.00200	.00313	-.33050	-.00002	.06771	.00318	-.00015	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.001	475.220	-15.01300	-.00206	.00557	-.19783	-.01515	.06256	.00322	-.00024	.00043
-14.997	500.080	-15.01400	-.00211	.00339	-.21225	-.01475	.05214	.00340	-.00019	.00069
-14.995	549.030	-15.01500	-.00220	-.00194	-.24347	-.01373	.03209	.00529	-.00013	.00063
-15.011	600.070	-15.01300	-.00232	-.00450	-.27384	-.01091	.03344	.00518	.00002	.00037
-15.039	700.470	-15.00300	-.00245	-.00335	-.28395	-.00546	.06250	.00407	.00023	.00081
-15.069	800.540	-15.00700	-.00221	-.00030	-.31420	-.00175	.07007	.00371	.00004	.00050
-15.073	1000.700	-15.00500	-.00212	-.00175	-.33028	.00081	.07137	.00339	-.00002	.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2657/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.012	333.290	-15.00300	-.00225	.00316	-.19334	-.00009	.07217	.00382	-.00003	.00081
-10.024	350.320	-15.01000	-.00235	.00207	-.20285	-.01085	.07079	.00322	.00006	.00074
-10.005	389.930	-15.01400	-.00238	.00497	-.23530	-.01251	.06735	.00373	.00006	.00035
-9.995	449.740	-15.01420	-.00224	.00700	-.28391	-.01261	.06468	.00459	-.00009	.00064
-10.025	500.140	-15.01300	-.00239	.00054	-.27019	-.01047	.06855	.00402	.00007	.00063
-10.034	559.640	-15.00700	-.00234	-.00273	-.29718	-.00383	.06933	.00370	.00012	.00059
-10.050	700.160	-15.00700	-.00209	-.00045	-.33163	.00008	.07089	.00320	-.00008	.00055
-10.005	759.370	-15.00300	-.00211	.00244	-.33023	.00035	.07112	.00299	-.00004	.00060
-10.079	1000.700	-15.00700	-.00210	.00030	-.33313	.00092	.07065	.00316	-.00005	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK004 (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1009.9000 IN. XO		
LREF =	1200.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UNCLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2661/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.021	173.020	-14.[illegible]	-.00135	.00072	-.20397	.00031	.07008	.00507	-.00071	.00097
-5.021	800.670	-14.[illegible]	-.00193	.00089	-.20004	.00019	.07000	.00469	-.00042	.00097
-5.023	870.810	-15.00310	-.00214	.00090	-.21771	-.00078	.07240	.00037	-.00007	.00075
-4.913	803.430	-15.01170	-.00221	.00103	-.20191	-.01079	.07103	.00385	-.00007	.00059
-5.025	900.000	-15.01200	-.00220	.00305	-.27375	-.00[illegible]	.07477	.00323	-.00005	.00043
-5.031	900.000	-15.00730	-.00219	.00078	-.30782	-.00[illegible]	.0[illegible]	.00335	-.00000	.00047
-5.024	000.[illegible]	-15.[illegible]	-.00107	.00973	-.[illegible]	.01070	.00724	.00003	-.00016	.00003
-5.019	700.[illegible]	-15.[illegible]	-.00187	.00131	-.33723	.00007	.00704	.00235	-.00016	.00059
-5.018	701.500	-15.[illegible]	-.00193	.00225	-.33777	.00103	.01245	.00301	-.00014	.00059
-5.059	1000.100	-15.[illegible]	-.[illegible]	.00471	-.[illegible]	.00103	.07171	.00009	-.00007	.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2669/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.023	15.414	-14.97705	-.00183	.02105	-.20185	.00344	.07115	.00390	-.00048	.00087
-.007	48.303	-14.[illegible]	-.00192	-.00102	-.23305	.01715	.07145	.00426	-.00047	.00082
-.020	93.885	-14.[illegible]	-.00113	.00975	-.25184	.01022	.07324	.00414	-.00082	.00055
-.017	140.020	-14.[illegible]	-.00172	.00330	-.23102	.00107	.07213	.00318	-.00035	.00101
-.009	185.010	-15.00000	-.00193	.01101	-.23105	.00122	.07376	.00331	-.00021	.00096
-.017	899.620	-15.01230	-.00200	.00150	-.20009	-.00003	.03735	.00255	-.00015	.00051
-.039	303.920	-15.00779	-.00209	.00077	-.30042	-.00349	.00220	.00289	-.00007	.00041
-.051	500.230	-15.00048	-.00197	.00130	-.33039	.00107	.07042	.00219	-.00015	.00059
-.013	600.320	-15.00257	-.00192	.01425	-.32022	.00071	.07040	.00226	-.00019	.00058
-.033	800.300	-15.00018	-.00192	.00039	-.32037	.00071	.07034	.00231	-.00019	.00058
.020	900.670	-15.00375	-.00[illegible]	-.00351	-.33897	.00071	.07026	.00225	-.00019	.00058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
URSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2635/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-19.983	624.970	600.02000	-.89064	.00515	-.03700	437.10000	.00000	.00000	654.15000	.00000	.00000
-20.012	700.020	599.91000	-.48317	.00779	-.02787	436.68000	.00000	.00000	653.50000	.00000	.00000
-20.062	800.920	600.37000	-.06767	.01008	-.03253	436.13000	.00000	.00000	652.71000	.00000	.00000
-20.065	1001.000	600.33000	.37285	.02125	-.04226	436.82000	.00000	.00000	653.80000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.001	475.220	600.08000	.05031	-.00309	-.00326	437.84000	.00000	.00000	655.26000	.00000	.00000
-14.997	500.030	600.07000	.51365	.00035	-.00050	438.31000	.00000	.00000	655.97000	.00000	.00000
-14.996	549.620	599.93000	-.73081	-.00120	-.00310	437.51000	.00000	.00000	654.82000	.00000	.00000
-15.011	650.070	600.10000	-.24543	.01737	-.01178	437.42000	.00000	.00000	654.74000	.00000	.00000
-15.029	700.470	599.72000	-.87764	.01022	-.00341	437.87000	.00000	.00000	654.11000	.00000	.00000
-15.039	800.090	599.82000	.27002	.00712	-.00317	438.01000	.00000	.00000	653.92000	.00000	.00000
-15.073	1000.700	600.03000	.09145	.01453	-.00473	438.03000	.00000	.00000	653.89000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2667/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.012	285.000	600.10000	-.00378	-.00373	-.00375	437.77000	.00000	.00000	653.78000	.00000	.00000
-10.024	300.000	600.11000	-.00713	-.00179	-.00197	437.74000	.00000	.00000	653.62000	.00000	.00000
-10.006	350.030	599.99000	.19723	-.01184	-.01153	438.71000	.00000	.00000	653.57000	.00000	.00000
-9.995	449.740	600.15000	-.02912	-.00273	-.00246	437.80000	.00000	.00000	654.18000	.00000	.00000
-10.055	500.140	600.76000	-.00000	.00103	-.00103	437.81000	.00000	.00000	654.10000	.00000	.00000
-10.034	503.010	600.01000	.07641	.00185	-.01716	438.04000	.00000	.00000	653.92000	.00000	.00000
-10.030	700.100	600.00000	.00570	.00030	-.01130	438.00000	.00000	.00000	653.40000	.00000	.00000
-10.095	759.370	599.77000	-.04497	.00233	-.01125	437.80000	.00000	.00000	654.13000	.00000	.00000
-10.079	1000.700	599.92000	.02051	.00418	-.01377	437.33000	.00000	.00000	654.49000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1080.0000 IN. XO		
LREF =	1280.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1280.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMOLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2681/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.021	175.080	600.00000	-.15700	.00083	-.04190	435.00300	.00000	.00000	651.15000	.00000	.00000
-5.021	200.070	600.10000	.04031	-.00037	-.00172	436.21000	.00000	.00000	652.00000	.00000	.00000
-5.023	250.810	600.25000	.10080	-.01103	-.00229	436.22000	.00000	.00000	652.03000	.00000	.00000
-4.999	300.400	600.70000	.05197	-.01772	-.07174	436.43000	.00000	.00000	651.67000	.00000	.00000
-5.025	350.000	600.70000	.00000	-.01102	-.00231	436.40000	.00000	.00000	652.20000	.00000	.00000
-5.031	500.000	600.70000	.50810	-.00247	-.01173	436.01000	.00000	.00000	650.00000	.00000	.00000
-5.054	800.000	600.70000	.20705	-.00002	-.01174	437.37000	.00000	.00000	654.50000	.00000	.00000
-5.030	700.200	600.00000	.00974	-.00001	-.01173	436.94000	.00000	.00000	653.18000	.00000	.00000
-5.015	700.800	599.77000	.00109	-.00205	-.01131	437.01000	.00000	.00000	653.27000	.00000	.00000
-5.039	1000.100	600.77000	.54050	.00005	-.01132	436.10000	.00000	.00000	652.80000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2039/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.023	15.414	600.36000	1.33380	.00323	-.00124	431.55000	.00000	.00000	645.81000	.00000	.00000
-.007	49.303	600.21000	-.54003	.00737	-.00138	431.56000	.00000	.00000	645.77000	.00000	.00000
-.020	93.055	600.21000	.00042	.00057	-.00137	431.61000	.00000	.00000	645.97000	.00000	.00000
-.017	149.000	600.21000	.13725	-.00126	-.00100	431.66000	.00000	.00000	646.00000	.00000	.00000
-.009	199.910	600.71000	.30003	-.00031	-.01131	431.71000	.00000	.00000	647.65000	.00000	.00000
-.017	299.000	600.70000	.04947	-.00046	-.00137	431.80000	.00000	.00000	646.54000	.00000	.00000
-.039	300.070	600.00000	.30314	-.00000	-.00103	431.34000	.00000	.00000	646.92000	.00000	.00000
-.051	500.800	600.21000	.01440	-.01104	-.00191	432.23000	.00000	.00000	647.10000	.00000	.00000
-.013	599.320	599.00000	.82854	-.01123	-.00103	432.33000	.00000	.00000	647.65000	.00000	.00000
-.058	800.300	599.93000	-.01642	-.00057	-.00189	432.85000	.00000	.00000	647.87000	.00000	.00000
.020	959.870	599.94000	-.30309	-.00049	-.00101	432.33000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK004) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -15.000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2655/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-19.983	624.970	980.37000	980.37000	81.00000	980.37000	980.10999	67.00000	74.00000	-14.54000	99.64200
-20.012	700.020	980.35000	980.35000	81.00000	980.35000	980.10999	67.00000	74.00000	-16.21800	99.64200
-20.062	800.990	980.61000	980.61000	81.00000	980.61000	980.10999	67.00000	74.00000	-15.39400	99.64200
-20.065	1001.000	980.32000	980.32000	81.00000	980.32000	980.10999	67.00000	74.00000	-11.68900	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.001	475.220	975.74000	975.74000	74.00000	975.74000	974.53000	77.00000	73.00000	-10.07600	99.64200
-14.997	500.080	975.34000	975.34000	74.00000	975.34000	974.53000	77.00000	73.00000	-11.52000	99.64200
-14.986	549.850	975.00000	975.00000	74.00000	975.00000	974.53000	77.00000	73.00000	-13.83000	99.64200
-15.011	600.070	974.97000	974.97000	74.00000	974.97000	974.53000	77.00000	73.00000	-13.83400	99.64200
-15.039	700.470	974.93000	974.93000	74.00000	974.93000	974.53000	77.00000	73.00000	-12.22600	99.64200
-15.089	800.940	974.53000	974.53000	74.00000	974.53000	974.53000	77.00000	73.00000	-10.85000	99.64200
-15.073	1000.700	974.73000	974.73000	74.00000	974.73000	974.53000	77.00000	73.00000	-8.69250	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2657/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.012	325.290	985.61000	985.61000	74.00000	985.61000	983.53000	77.00000	73.00000	-2.74670	99.64200
-10.024	350.320	985.46000	985.46000	74.00000	985.46000	983.53000	77.00000	73.00000	-6.60820	99.64200
-10.005	399.930	985.22000	985.22000	74.00000	985.22000	983.53000	77.00000	73.00000	-12.57500	99.64200
-9.993	449.740	985.18000	985.18000	74.00000	985.18000	983.53000	77.00000	73.00000	-16.30200	99.64200
-10.025	500.140	985.11000	985.11000	74.00000	985.11000	983.53000	77.00000	73.00000	-17.67600	99.64200
-10.034	599.840	984.83000	984.83000	74.00000	984.83000	983.53000	77.00000	73.00000	-18.21400	99.64200
-10.050	700.160	984.54000	984.54000	74.00000	984.54000	983.53000	77.00000	73.00000	-17.76500	99.64200
-10.005	799.370	984.18000	984.18000	74.00000	984.18000	983.53000	77.00000	73.00000	-15.93500	99.64200
-10.079	1000.700	983.78000	983.78000	74.00000	983.78000	983.53000	77.00000	73.00000	-14.00500	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D8A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK004) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMELDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2661/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.021	175.080	978.27000	978.27000	74.00000	978.27000	979.09000	75.00000	72.00000	-2.56850	99.64200
-5.021	200.070	978.30000	978.30000	74.00000	978.30000	979.09000	75.00000	72.00000	-2.10690	99.64200
-5.026	249.910	978.41000	978.41000	74.00000	978.41000	979.09000	75.00000	72.00000	-5.01650	99.64200
-4.933	299.430	978.57000	978.57000	74.00000	978.57000	979.09000	75.00000	72.00000	-9.90720	99.64200
-5.025	359.650	978.94000	978.94000	74.00000	978.94000	979.09000	75.00000	72.00000	-15.42200	99.64200
-5.031	500.050	979.45000	979.45000	74.00000	979.45000	979.09000	75.00000	72.00000	-16.77600	99.64200
-5.054	600.030	980.09000	980.09000	74.00000	980.09000	979.09000	75.00000	72.00000	-16.42400	99.64200
-5.060	700.220	982.80000	982.80000	74.00000	982.80000	979.09000	75.00000	72.00000	-15.98600	99.64200
-5.015	759.250	981.07000	981.07000	74.00000	981.07000	979.09000	75.00000	72.00000	-15.73300	99.64200
-5.039	1000.100	979.30000	979.30000	74.00000	979.30000	979.09000	75.00000	72.00000	-15.01300	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2669/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.023	15.414	978.35000	978.35000	76.00000	978.35000	977.64999	78.00000	74.00000	-12.58800	99.64200
-.007	49.303	978.20000	978.20000	76.00000	978.20000	977.64999	78.00000	74.00000	-12.04000	99.64200
-.020	99.625	978.13000	978.13000	76.00000	978.13000	977.64999	78.00000	74.00000	-11.31200	99.64200
-.017	149.690	978.11000	978.11000	76.00000	978.11000	977.64999	78.00000	74.00000	-11.28900	99.64200
-.009	159.810	978.20000	978.20000	76.00000	978.20000	977.64999	78.00000	74.00000	-12.11400	99.64200
-.017	259.[illegible]	977.94000	977.94000	76.00000	977.94000	977.64999	78.00000	74.00000	-16.16300	99.64200
-.039	399.990	977.94000	977.94000	76.00000	977.94000	977.64999	78.00000	74.00000	-17.00100	99.64200
-.061	500.260	978.11000	978.11000	76.00000	978.11000	977.64999	78.00000	74.00000	-16.43000	99.64200
-.013	599.320	977.91000	977.91000	76.00000	977.91000	977.64999	78.00000	74.00000	-15.98300	99.64200
-.058	800.350	978.09000	978.09000	76.00000	978.09000	977.64999	78.00000	74.00000	-15.58300	99.64200
.020	959.870	977.65000	977.65000	76.00000	977.65000	977.64999	78.00000	74.00000	-15.22700	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2665/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.983	624.970	600.02000	-.69054	-35.00000	-.00825	.66101	-.12936	.02158	.00534	.00172	.13120
-20.012	700.020	599.91000	-.48317	-35.02600	-.00920	.65898	-.13479	.01895	.00742	.00182	.12247
-20.062	800.990	600.37000	-.06767	-35.07200	-.00781	.65409	-.12308	.02190	.00615	.00187	.12725
-20.065	1001.000	600.39000	.37295	-35.07100	.00114	.75731	-.08441	.02664	.00221	.00190	.12991
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2653/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.001	475.220	600.09000	.05031	-30.01400	.00351	.54450	-.11475	.01080	.00393	.00122	.12692
-14.997	500.080	600.07000	.51355	-30.01100	.00528	.54986	-.11551	.01007	.00500	.00108	.12752
-14.996	549.860	599.99000	-.73061	-30.00100	-.00414	.55553	-.11470	.01396	.00486	.00135	.12616
-15.011	600.070	600.10000	-.24543	-30.02400	-.00722	.55179	-.12017	.01207	.00777	.00153	.12254
-15.039	700.470	599.76000	-.27724	-30.04800	-.00901	.57752	-.10535	.01560	.00624	.00150	.12274
-15.069	800.940	599.93000	.27082	-30.07600	-.00271	.61522	-.09522	.01935	.00375	.00164	.12902
-15.073	1000.700	599.93000	.00148	-30.07900	-.00387	.66390	-.04638	.02290	.00038	.00158	.13545
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2657/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.012	325.290	600.13000	-.00378	-25.02100	-.00009	.43300	-.10756	.00509	.00199	.00067	.11573
-10.024	350.320	600.16000	-.06722	-25.03400	-.00028	.44086	-.10375	.00358	.00250	.00076	.11601
-10.006	399.930	599.68000	.14788	-25.02000	.00039	.45493	-.09710	.00158	.00303	.00065	.12154
-9.995	449.740	599.54000	-.03412	-25.00000	.00475	.45469	-.10003	.00455	.00359	.00086	.12043
-10.025	500.140	599.75000	-.03330	-25.03300	-.00183	.44332	-.10518	.00492	.00355	.00096	.11847
-10.034	599.840	599.81000	.07241	-25.04100	-.00507	.46829	-.09455	.01063	.00557	.00118	.12013
-10.050	700.160	599.86000	.03570	-25.05700	-.00253	.48524	-.08309	.01472	.00268	.00110	.11255
-10.005	799.370	599.77000	-.04497	-25.01000	.00033	.50517	-.06497	.01748	.00100	.00103	.12312
-10.079	1000.700	599.93000	.02551	-25.08300	-.00130	.57149	-.00757	.01934	-.00177	.00097	.14205
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK004) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-15.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2661/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.021	175.080	600.09000	-.15700	-20.01800	-.00063	-.32476	-.09429	.00499	.00141	.00025	.11950
-5.021	200.070	600.10000	.04891	-20.02100	.00379	-.33887	-.09181	.00268	.00190	.00026	.11707
-5.026	249.910	599.69000	.18000	-20.03200	.00126	-.36653	-.08593	.00267	.00271	.00041	.11414
-4.996	299.430	599.74000	.03197	-20.00800	.00588	-.37178	-.08060	.00063	.00259	.00038	.11581
-5.025	399.650	599.75000	.00853	-20.03700	-.00015	-.35312	-.09197	-.00397	.00553	.00054	.11021
-5.031	500.050	599.82000	.54316	-20.03300	.00407	-.36792	-.08380	.00523	.00465	.00092	.11754
-5.054	600.080	599.78000	.23705	-20.03000	.00282	-.36384	-.07452	.01182	.00247	.00065	.10716
-5.060	700.280	599.85000	.08474	-20.00500	-.00067	-.39152	-.05450	.01005	.00133	.00068	.11179
-5.015	799.250	599.77000	.05429	-20.02100	.00166	-.41710	-.03087	.01183	.00018	.00056	.12226
-5.039	1000.100	599.77000	.34928	-20.04500	.00264	-.45201	.01561	.01243	-.00195	.00050	.14654
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2669/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.023	15.414	600.36000	1.33380	-15.00000	.02036	-.23436	-.07919	.00628	.00039	.00024	.12880
-.007	49.303	600.21000	-.54898	-14.99300	-.00544	-.22035	-.07839	.00404	.00086	.00012	.12681
-.020	99.625	600.23000	.02342	-15.01200	.00162	-.25292	-.07815	.00317	.00163	-.00002	.12360
-.017	149.690	600.20000	.13765	-15.01600	.00148	-.28187	-.07243	.00168	.00174	-.00000	.11834
-.009	159.810	599.72000	.30088	-15.01000	.00314	-.28711	-.07063	.00257	.00175	.00001	.11643
-.017	299.620	599.78000	.04447	-15.02800	-.00058	-.27076	-.07927	-.00322	.00417	.00026	.10500
-.039	393.950	599.82000	.35614	-15.04700	.00039	-.27259	-.07358	.00255	.00336	.00049	.10626
-.051	500.260	599.81000	.01440	-15.06700	-.00367	-.27651	-.05423	.00568	.00324	.00056	.10343
-.013	599.320	599.83000	.82654	-15.01900	.01232	-.29003	-.04423	.00550	.00228	.00047	.10454
-.058	800.350	599.93000	-.01642	-15.06400	-.00164	-.31882	-.00430	.00920	-.00073	.00026	.12265
.020	958.870	599.94000	-.39608	-14.98300	-.00243	-.31757	.01411	.00934	-.00171	.00032	.13806
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R(1) W/ET SEPARATING (RVK005) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DSETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLOR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2670/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.001	624.810	-.20054	-.00034	.00294	.46055	-.01052	.00527	-.00014	.00373	.02291	.23273
-19.934	689.160	-.15457	-.00037	.00789	.37410	-.03024	.00341	.00030	.00426	.02308	.23214
-19.931	723.790	-.24471	.22037	.00252	.39072	-.03507	.00362	.00043	.00203	.01937	.23407
-20.003	939.750	.10323	-.31150	-.00340	.17072	-.02570	.00191	.00062	-.00019	.01110	.23610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2674/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-14.989	474.740	-.17084	.19429	.00482	.33235	-.01708	.00374	-.00007	.00335	.02426	.23580
-15.032	500.090	.06731	.84024	.01335	.34033	-.02111	.00325	.00014	.00319	.02298	.23812
-14.994	549.420	-.10035	-.00207	.00285	.31702	-.03101	.00283	.00037	.00283	.02160	.23639
-14.984	599.[illegible]	-.09150	.16009	.00433	.27370	-.02[illegible]2	.00340	.00017	.00201	.01654	.23656
-14.946	698.5	-.11935	.11121	.00504	.20285	-.03176	.00302	.00039	.00031	.00833	.23528
-14.941	799.580	-.18737	.11406	.00486	.17631	-.02203	.00234	.00062	-.00030	.00974	.23672
-15.084	1000.100	.23501	.23038	-.00263	.07419	-.00728	.00041	.00038	.00024	.01685	.23631
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2678/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.008	324.810	.02302	.30039	.00755	.34498	-.00803	.00234	-.00012	.00230	.01939	.23646
-10.037	349.630	.21008	.23036	.00523	.31179	-.01211	.00192	-.00006	.00234	.02128	.23590
-10.006	363.330	.15000	.09702	.00114	.29003	-.02243	.00142	.00017	.00162	.02081	.23613
-9.902	449.030	.02737	.07043	.00389	.22041	-.02024	.00053	.00007	.00087	.01461	.23679
-9.936	499.230	.00510	.00703	.00150	.17783	-.02774	.00339	-.00007	.00021	.00901	.23322
-9.980	603.700	-.02313	.18075	.00735	.16074	-.01027	.00241	.00075	-.00002	.01064	.23530
-9.955	699.620	-.05004	.02403	.00479	.14027	-.01483	.00073	.00070	-.00000	.01323	.23509
-10.014	799.190	.11112	-.02631	.00337	.00093	-.00093	.00039	.00039	.00026	.01659	.23635
-10.012	999.440	.24513	-.06355	.00223	.07925	-.00727	.00014	.00041	.00023	.01751	.23673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (RVK005) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2682/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.010	174.570	.14812	-.52441	-.00490	.25925	.01233	.00065	-.00013	.00166	.02352	.23616
-5.017	199.420	.12239	.21155	.00349	.23241	.00561	.00056	.00006	.00133	.02174	.23652
-5.013	249.250	.20178	-.07077	-.00155	.21346	-.00703	.00019	.00015	.00114	.02262	.23609
-4.987	299.080	.06706	.44916	.00952	.19334	-.01699	.00055	.00030	.00068	.02078	.23632
-4.972	398.610	.06304	.08312	.00464	.12408	-.01793	.00098	.00028	.00101	.01448	.23608
-4.972	498.760	.10871	-.20833	-.00114	.10818	-.01187	.00060	.00040	.00030	.01752	.23658
-5.040	699.540	.03795	-.02837	.00225	.08173	-.00860	.00015	.00036	.00025	.01946	.23521
-5.075	800.110	.25780	.15704	.00227	.07373	-.00750	.00002	.00037	.00021	.02016	.23624
-5.022	999.420	.27045	-.02978	-.00153	.07333	-.00757	.00020	.00038	.00022	.02019	.23675
	GRADIENT	.36493	.44196	.00775	.07327	-.00755	.00005	.00038	.00021	.02044	.23677
		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2686/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.526	49.851	.25225	-.00530	.00033	.17328	.01940	-.00144	-.00052	.00108	.03419	.23598
-.486	98.951	.19703	-.04937	.00276	.19255	.01114	-.00069	.00004	.00099	.02728	.23556
-.496	148.960	.19386	-.03025	-.00008	.17718	.00115	-.00132	.00022	.00095	.02420	.23549
-.507	159.410	.10362	.01894	.00222	.16924	-.00163	-.00135	.00032	.00080	.02352	.23563
-.451	298.300	.23778	.01403	.00333	.11317	-.01217	-.00038	.00037	.00042	.01949	.23559
-.480	398.780	.20979	.05592	.00400	.08957	-.01088	-.00017	.00036	.00016	.01729	.23554
-.480	498.730	.19444	-.22310	-.00041	.07607	-.00792	-.00013	.00038	.00019	.01879	.23622
-.553	599.590	.21145	.23941	.00356	.07219	-.00754	-.00021	.00035	.00021	.01928	.23580
-.561	799.780	.22088	.11691	.00175	.07259	-.00746	-.00022	.00034	.00021	.01916	.23577
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YC
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2670/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.001	624.810	-9.99300	-.00114	.00204	.07997	-.00592	.06586	.01249	-.00106	.00377
-19.954	693.160	-10.00700	-.00177	.00709	.04841	-.01954	.05604	.01063	-.00062	.00430
-19.931	758.790	-10.01500	-.00202	.00252	-.02564	-.02535	.06241	.01085	-.00049	.00267
-20.003	993.750	-10.01100	-.00209	-.00240	-.15754	-.01491	.05439	.00918	-.00030	-.00013
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000

RUN NO. 2674/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.999	474.740	-9.99300	-.00121	.00452	.08823	-.00623	.05780	.01106	-.00100	.00340
-15.032	500.090	-10.00000	-.00149	.01325	.01933	-.01025	.06556	.01058	-.00079	.00324
-14.984	549.420	-10.00300	-.00188	.00303	-.01372	-.02014	.05322	.01015	-.00056	.00287
-14.934	593.430	-10.01500	-.00174	.00433	-.05725	-.02455	.06028	.01073	-.00076	.00205
-14.946	698.530	-10.01500	-.00194	.00504	-.12361	-.02009	.05200	.01036	-.00054	.00036
-14.941	798.580	-10.01100	-.00210	.00465	-.15252	-.01494	.05344	.00958	-.00032	-.00026
-15.084	1000.100	-10.00000	-.00158	-.00053	-.25767	.00332	.06261	.00776	-.00056	.00029
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000

RUN NO. 2678/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.008	324.810	-9.99300	-.00102	.00755	.00743	.00305	.06390	.00932	-.00107	.00234
-10.037	349.660	-9.99300	-.00114	.00223	-.02583	-.00101	.06581	.00940	-.00101	.00238
-10.006	399.330	-10.00400	-.00152	.00414	-.06982	-.01133	.05534	.00890	-.00078	.00166
-9.982	448.030	-10.01080	-.00152	.00358	-.11743	-.01714	.05917	.01001	-.00028	.00092
-9.986	498.200	-10.01280	-.00139	.00480	-.16013	-.01653	.05359	.01058	-.00102	.00026
-9.980	503.700	-10.00300	-.00213	.00735	-.17767	-.00315	.05327	.00991	-.00021	.00002
-9.955	698.620	-10.00310	-.00200	.00479	-.19243	-.00325	.05790	.00923	-.00025	.00004
-10.014	799.190	-9.99300	-.00159	.00357	-.25203	.00291	.06130	.00769	-.00056	.00030
-10.012	999.440	-9.99300	-.00180	.00223	-.25935	.00337	.06221	.00755	.00055	.00027
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(1HRC1) W/ET SEPARATING (SVK005) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2682/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.010	174.570	-9.97330	-.00073	-.00490	-.0[illegible]403	.02328	.05747	.00803	-.00107	.00170
-5.017	199.420	-9.[illegible]0330	-.00103	.00349	-.1[illegible]090	.01657	.06570	.00794	-.00088	.00137
-5.013	249.230	-9.[illegible]0230	-.00129	-.00185	-.1[illegible]951	.00391	.06334	.00757	-.00079	.00118
-4.987	299.080	-10.00230	-.00159	.00552	-.1[illegible]334	-.00605	.06465	.00792	-.00064	.00073
-4.972	398.810	-10.00320	-.00159	.00464	-.2[illegible]636	-.00700	.05934	.00835	-.00068	.00106
-4.972	498.760	-10.00210	-.00165	-.00114	-.2[illegible]459	-.00093	.06141	.00798	-.00054	.00034
-4.971	598.650	-10.00000	-.00157	.00225	-.25110	.00234	.06336	.00752	-.00058	.00029
-5.040	699.540	-9.[illegible]0230	-.00156	.00227	-.2[illegible]370	.00343	.06400	.00739	-.00057	.00026
-5.075	800.110	-9.[illegible]0380	-.00157	-.00153	-.2[illegible]816	.00336	.06404	.00757	-.00056	.00026
-5.022	999.420	-9.[illegible]0350	-.00158	.00775	-.2[illegible]806	.00337	.06427	.00742	-.00055	.00026
	GRADIENT	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2686/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.526	49.851	-9.97039	-.00019	.00033	-.1[illegible]760	.03027	.07783	.00589	-.00145	.00113
-.486	98.951	-9.97705	-.00082	.00276	-.1[illegible]360	.02201	.07094	.00654	-.00089	.00104
-.495	148.950	-9.97706	-.00124	-.00008	-.1[illegible]389	.01203	.06786	.00501	-.00071	.00100
-.507	159.410	-9.[illegible]0006	-.00133	.00232	-.1[illegible]196	.00525	.06718	.00599	-.00062	.00084
-.451	259.300	-10.00153	-.00162	.00386	-.2[illegible]522	-.00128	.06218	.00732	-.00056	.00047
-.480	358.780	-10.00140	-.00158	.00400	-.2[illegible]153	.00000	.06095	.00717	-.00058	.00021
-.480	498.730	-9.[illegible]0371	-.00157	-.00041	-.2[illegible]495	.00295	.06244	.00720	-.00055	.00024
-.553	599.590	-9.[illegible]0287	-.00154	.00356	-.2[illegible]372	.00333	.06293	.00712	-.00058	.00025
-.561	799.780	-9.99919	-.00152	.00175	-.2[illegible]817	.00341	.06278	.00710	-.00060	.00026
	GRADIENT	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(34RC1) W/ET SEPARATING (TVK005) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2670/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.001	624.810	-.20554	-.00034	.00707	-.12938	431.10000	.00000	.00000	645.18000	.00000	.00000
-19.954	699.160	-.15457	-.00837	-.01881	-.15398	431.12000	.00000	.00000	645.20000	.00000	.00000
-19.931	793.790	-.24471	.22057	-.01669	-.20021	432.00000	.00000	.00000	646.53000	.00000	.00000
-20.003	893.750	.10323	-.31150	.05197	-.05851	434.52000	.00000	.00000	650.29000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2674/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.999	474.740	-.17094	.19429	-.03579	-.22765	437.03000	.00000	.00000	654.05000	.00000	.00000
-15.032	500.090	.08731	.64824	-.08092	-.28346	437.40000	.00000	.00000	654.60000	.00000	.00000
-14.984	549.420	-.10025	-.00807	-.02640	-.22506	437.79000	.00000	.00000	655.19000	.00000	.00000
-14.994	599.430	-.09160	.16909	.16912	.04681	438.60000	.00000	.00000	655.62000	.00000	.00000
-14.946	603.530	-.11905	.11121	.20305	.11937	439.20000	.00000	.00000	655.90000	.00000	.00000
-14.941	793.660	-.16737	.11406	.08375	-.07221	438.69000	.00000	.00000	656.39000	.00000	.00000
-15.084	1000.100	.23301	.23093	.05738	-.03333	438.10000	.00000	.00000	657.27000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2678/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.008	324.810	.02302	.35839	-.14085	-.31014	446.76000	.00000	.00000	668.61000	.00000	.00000
-10.037	349.650	.21658	.23085	.00023	-.08261	447.03000	.00000	.00000	669.02000	.00000	.00000
-10.006	399.330	.15090	.05782	.00123	-.16306	446.58000	.00000	.00000	668.90000	.00000	.00000
-9.932	449.030	.02737	.07043	.00086	-.15821	447.22000	.00000	.00000	669.31000	.00000	.00000
-9.936	499.200	.09310	.09203	.07455	-.03157	447.48000	.00000	.00000	669.71000	.00000	.00000
-9.960	598.700	-.06313	.19375	.04974	-.06386	447.93000	.00000	.00000	670.41000	.00000	.00000
-9.955	698.520	-.05004	.08438	.04763	-.05650	448.33000	.00000	.00000	670.96000	.00000	.00000
-10.014	799.190	.11112	-.02531	.04874	-.04671	448.76000	.00000	.00000	671.61000	.00000	.00000
-10.012	899.440	.24913	-.06355	.05733	-.02906	448.60000	.00000	.00000	671.37000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A ([A22),ORBITER O4RC1) W/ET SEPARATING (TVKOF.) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2682/ 0 RN/L = .86 (RADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.010	174.570	.14812	-.52441	-.07771	-.26441	441.15000	.00000	.00000	660.22000	.00000	.00000
-5.017	199.420	.12239	.21155	.14345	.10311	441.10000	.00000	.00000	660.29000	.00000	.00000
-5.013	249.250	.20178	-.07077	.02236	-.03331	440.78000	.00000	.00000	659.52000	.00000	.00000
-4.987	299.080	.08705	.44916	.00104	-.11231	440.30000	.00000	.00000	659.04000	.00000	.00000
-4.972	349.610	.03204	.08312	.01830	-.07031	440.48000	.00000	.00000	659.17000	.00000	.00000
-4.972	498.760	.10871	-.20833	.03033	-.02431	440.50000	.00000	.00000	659.24000	.00000	.00000
-4.971	598.660	.03755	-.02867	.03579	-.02231	440.57000	.00000	.00000	659.35000	.00000	.00000
-5.040	699.540	.26780	.15704	.03003	-.01521	440.03000	.00000	.00000	658.54000	.00000	.00000
-5.075	800.110	.27045	-.02978	.02254	-.01341	440.11000	.00000	.00000	658.69000	.00000	.00000
-5.022	999.420	.38493	.44155	.02159	-.00441	439.90000	.00000	.00000	653.35000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2686/ 0 RN/L = .87 (RADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.526	49.851	.25225	-.00980	.04830	.04552	437.90000	.00000	.00000	655.49000	.00000	.00000
-.496	99.951	.19703	-.04937	.02893	.00217	439.21000	.00000	.00000	655.83000	.00000	.00000
-.495	148.930	.19086	-.03025	.00768	-.02003	439.23000	.00000	.00000	655.84000	.00000	.00000
-.507	159.410	.10332	.01634	.00307	-.02353	438.28000	.00000	.00000	655.92000	.00000	.00000
-.451	299.300	.23778	.01408	.00341	-.00721	439.80000	.00000	.00000	655.50000	.00000	.00000
-.480	399.780	.20879	.05382	.01908	.01057	438.27000	.00000	.00000	655.91000	.00000	.00000
-.480	499.730	.15444	-.22310	.01409	.00228	438.18000	.00000	.00000	655.77000	.00000	.00000
-.553	599.590	.21145	.23941	.01151	.01107	439.02000	.00000	.00000	655.54000	.00000	.00000
-.561	799.780	.22008	.11691	.00333	.01631	437.82000	.00000	.00000	655.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK005) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2670/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-20.001	624.810	997.87000	997.87000	74.00000	997.87000	997.00000	76.00000	72.00000	14.68500	99.51600
-19.954	699.150	997.43000	997.43000	74.00000	997.43000	997.00000	76.00000	72.00000	16.55600	99.51600
-19.931	753.750	999.09000	989.89000	74.00000	989.89000	997.09000	76.00000	72.00000	31.08100	99.51600
-20.003	999.750	974.58000	974.58000	74.00000	974.58000	967.66000	76.00000	72.00000	27.34700	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	00000	.00000	.00000

RUN NO. 2674/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-14.999	474.740	999.22000	999.22000	73.00000	999.22000	999.00009	76.00000	72.00000	22.14600	99.51600
-15.032	500.090	998.55000	998.56000	73.00000	998.55000	998.00009	76.00000	72.00000	23.52000	99.51600
-14.994	549.420	999.99000	999.99000	73.00000	998.99000	999.00009	76.00000	72.00000	25.63800	99.51600
-14.984	599.430	991.12000	991.12000	73.00000	991.12000	999.00009	76.00000	72.00000	29.43200	99.51600
-14.996	699.650	991.55000	991.55000	73.00000	991.55000	999.00009	76.00000	72.00000	30.00000	99.51600
-14.991	799.500	992.24000	992.24000	73.00000	992.24000	999.00009	76.00000	72.00000	26.80400	99.51600
-15.084	1000.100	992.61000	992.61000	73.00000	992.61000	998.00009	76.00000	72.00000	18.39300	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2678/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-10.008	324.810	998.33000	998.33000	72.00000	998.33000	998.10999	74.00000	72.00000	34.79700	99.51600
-10.037	349.830	999.44000	998.44000	72.00000	999.44000	998.10999	74.00000	72.00000	31.89700	99.51600
-10.006	399.330	999.75000	999.75000	72.00000	999.75000	998.10999	74.00000	72.00000	26.74600	99.51600
-9.992	449.000	999.00000	999.00000	72.00000	999.00000	998.10999	74.00000	72.00000	26.62200	99.51600
-9.996	499.200	999.00000	999.00000	72.00000	999.00000	999.10999	74.00000	72.00000	24.99200	99.51600
-9.980	599.700	999.00000	999.00000	72.00000	998.00000	998.10999	74.00000	72.00000	19.73900	99.51600
-9.955	699.620	991.30000	991.30000	72.00000	991.30000	998.10999	74.00000	72.00000	12.83900	99.51600
-10.014	799.150	991.75000	991.75000	72.00000	991.75000	998.10999	74.00000	72.00000	7.53450	99.51600
-10.012	999.440	992.39000	992.39000	72.00000	992.39000	998.10999	74.00000	72.00000	1.79800	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK005) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2002/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	CLPDAL	TB1	TB2	DT	T
-5.010	174.570	976.60000	976.60000	71.00000	976.60000	976.57009	73.00000	70.00000	17.63700	99.51600
-5.017	193.430	977.31000	977.30000	71.00000	977.30000	976.57009	73.00000	70.00000	19.22500	99.51600
-5.013	243.230	977.60000	977.60000	71.00000	977.60000	976.57009	73.00000	70.00000	14.38100	99.51600
-4.997	277.070	977.90000	977.90000	71.00000	977.90000	976.57009	73.00000	70.00000	13.41800	99.51600
-4.972	313.010	978.20000	978.20000	71.00000	978.20000	976.57009	73.00000	70.00000	12.75300	99.51600
-4.972	402.750	978.84000	978.84000	71.00000	978.84000	976.57009	73.00000	70.00000	8.97170	99.51600
-4.971	563.030	979.40000	979.40000	71.00000	979.40000	976.57009	73.00000	70.00000	5.42850	99.51600
-5.040	663.540	979.60000	979.60000	71.00000	979.60000	976.57009	73.00000	70.00000	2.31170	99.51600
-5.075	800.110	979.84000	979.84000	71.00000	979.84000	976.57009	73.00000	70.00000	.30742	99.51600
-5.022	959.420	979.60000	979.60000	71.00000	979.60000	976.57009	73.00000	70.00000	-1.63030	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2003/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	CLPDAL	TB1	TB2	DT	T
-.525	49.851	978.01000	978.01000	73.00000	978.01000	977.8[illegible]	76.00000	70.00000	-.88337	99.64200
-.486	98.951	978.52000	978.52000	73.00000	978.52000	977.8[illegible]	[illegible].00000	70.00000	-1.44750	99.64200
-.496	148.980	979.03000	979.03000	73.00000	979.03000	977.80[illegible]	[illegible].00000	70.00000	-2.46720	99.64200
-.507	198.410	979.14000	979.14000	73.00000	979.14000	977.8[illegible]	76.00000	70.00000	-3.00460	99.64200
-.451	248.320	979.52000	979.52000	73.00000	979.52000	977.8[illegible]	76.00000	70.00000	-2.05250	99.64200
-.480	300.720	979.13000	979.13000	73.00000	979.13000	977.8[illegible]	76.00000	70.00000	-2.12300	99.64200
-.400	400.780	979.40000	979.40000	73.00000	979.40000	977.80000	76.00000	70.00000	-2.83140	99.64200
-.553	500.000	979.61000	979.61000	73.00000	979.61000	977.80000	76.00000	70.00000	-4.07130	99.64200
-.561	799.720	979.60000	979.60000	73.00000	979.60000	977.80000	76.00000	70.00000	-5.55050	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK005) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DEETA = .000 X = .000
Y = .000 ELEVON = .000
UMELDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2670/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.001	624.810	-.20554	-.00034	-29.00400	.00030	-.63574	-.05783	.02702	-.00058	.00154	.12021
-19.954	663.160	-.15457	-.00237	-29.03100	.00032	-.60883	-.03778	.03150	-.00324	.00151	.13709
-19.931	703.730	-.24471	.22057	-29.04300	.00430	-.71074	-.00859	.03131	-.00393	.00149	.15267
-20.003	803.750	.10323	-.31150	-30.01400	-.00419	-.77194	.03314	.03151	-.00594	.00193	.19393
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2674/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.999	474.740	-.17094	.10199	-24.00099	.00831	-.62180	-.04517	.01074	.00100	.00143	.11949
-15.032	500.090	.03731	.59024	-23.02300	.01175	-.42331	-.02052	.01894	.00039	.00107	.11326
-14.994	548.420	-.10026	-.00007	-24.00000	.00100	-.60155	-.04034	.02152	-.00106	.00107	.11892
-14.984	599.430	-.03160	.18009	-23.00000	.00000	-.59701	-.03030	.02172	-.00134	.00113	.12546
-14.946	600.530	-.11905	.11121	-24.01100	.00311	-.57113	-.00034	.02036	-.00009	.00114	.14603
-14.941	750.900	-.10737	.11403	-24.01300	.00213	-.61003	.03703	.02244	-.00038	.00130	.17589
-15.064	1000.100	.25201	.23003	-23.02700	-.00021	-.51724	-.00037	.01549	-.00051	.00052	.14784
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2678/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.008	324.810	.02302	.38099	-19.99000	.00033	-.42099	-.02990	.01481	-.00079	.00102	.12323
-10.037	349.030	.21009	.23005	-20.03000	.00139	-.38093	-.04707	.01302	.00059	.00084	.11283
-10.005	353.230	.18000	.09702	-20.01000	.00002	-.37700	-.03438	.01306	.00070	.00079	.10864
-9.992	448.030	.02737	.07003	-19.99000	.00003	-.38109	-.04103	.01412	.00014	.00084	.11247
-9.986	478.200	.07210	.03003	-19.99000	.00031	-.41007	-.03775	.01491	-.00047	.00082	.11797
-9.980	503.700	-.03313	.10703	-19.99000	.00012	-.44003	.00103	.01345	-.00109	.00057	.13357
-9.995	603.990	-.03004	.00498	-19.99000	.00079	-.47005	.03221	.01593	-.00039	.00082	.16246
-10.014	799.190	.11112	-.02831	-20.01300	.00033	-.44715	.02775	.01603	-.00009	.00107	.16607
-10.012	999.440	.24513	-.05005	-20.01100	.00033	-.32017	-.04036	.00937	.00065	.00027	.12078
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK005) (04 MAY 77)

REFERENCE DATA

SREF =	2390.0000 SQ.FT.	XMRP =	1338.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2382/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.010	174.570	.14812	-.52441	-14.92500	-.00033	-.31534	-.03975	.01435	-.00123	.00047	.11407
-5.017	199.420	.12239	.21155	-14.99000	.00045	-.25469	-.04063	.01097	-.00014	.00041	.11239
-5.013	249.230	.20178	-.07077	-15.00000	-.00004	-.27514	-.04651	.00970	.00140	.00038	.10063
-4.997	299.030	.05765	.44016	-14.91000	.00023	-.28941	-.04043	.00723	.00100	.00045	.10341
-4.972	349.610	.00504	.00312	-14.97000	.00006	-.30000	-.01554	.01030	-.00004	.00050	.11343
-4.972	403.730	.10071	-.20033	-14.97400	-.00050	-.33027	.05477	.01089	-.00074	.00034	.12725
-4.971	500.030	.03765	-.02037	-14.97100	.00002	-.34163	.00332	.01132	-.00137	.00046	.14637
-5.040	699.540	.23720	.15764	-15.02000	.00170	-.28004	.00333	.00545	-.00033	.00044	.13523
-5.075	800.110	.27045	-.02072	-15.07000	-.00010	-.28078	-.03008	.00543	.00089	.00008	.10461
-5.022	999.420	.33193	.44155	-15.02200	.00118	-.21717	-.03027	.00512	.00093	.00011	.10879
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2383/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.525	49.051	.22035	-.00000	-10.49000	.00114	-.21444	-.04533	.00318	.00082	.00043	.09699
-.495	98.951	.19703	-.01037	-10.49000	.00024	-.21884	-.03705	.00005	.00010	.00007	.10023
-.495	148.530	.19003	-.03033	-10.48000	-.00032	-.20161	-.03703	.00883	.00103	.00015	.09834
-.507	199.410	.10092	.01634	-10.49700	.00003	-.20150	-.03003	.00486	.00102	.00017	.09815
-.451	249.300	.23778	.01403	-10.45000	.00005	-.22212	-.01195	.00013	.00001	.00021	.10706
-.490	300.700	.20079	.00003	-10.48100	.00042	-.22191	.00293	.00535	-.00067	.00016	.11637
-.480	400.700	.19944	-.02310	-10.48000	-.00003	-.21071	.01915	.00001	.00125	.00019	.12991
-.503	500.600	.21145	.20041	-10.50000	.00002	-.18004	-.00287	.00787	-.00027	.00018	.11612
-.551	799.720	.26003	.11831	-10.51000	.00023	-.13003	-.03132	.00444	.00030	-.00007	.09919
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22);ORBITER(04RC) W/ET SEPARATING (RVRC06) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2671/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.016	625.570	200.13000	.02279	-.00061	.37795	-.03972	.00283	00038	.00394	.01773	.23596
-20.043	700.840	200.26000	-.01517	.00027	.26677	-.04062	.00313	.00029	.00199	.01300	.23608
-19.999	799.930	199.98000	-.00476	.00272	.21011	-.03468	.00436	.00036	-.00023	.00750	.23552
-20.053	1001.100	200.34000	-.12657	-.00235	.14847	-.01640	.00079	.00096	-.00016	.01528	.23673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2675/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-14.989	474.890	199.97000	-.37213	-.00307	.34830	-.03581	.00223	.00046	.00170	.01542	.23881
-15.016	500.220	200.03000	.37447	.00305	.29703	-.03309	.00328	.00020	.00118	.01592	.23843
-15.029	550.390	200.07000	-.45974	-.00427	.24097	-.03233	.00361	.00016	.00078	.01269	.23842
-15.056	600.750	200.27000	-.08126	-.00162	.19189	-.02910	.00318	.00012	.00072	.00895	.23831
-15.005	799.630	200.13000	.24703	.00484	.13799	-.01404	.00092	.00059	-.00009	.01480	.23781
-14.931	998.700	199.83000	.23410	.01392	.07467	-.00747	.00038	.00038	.00025	.01859	.23691
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2679/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-9.992	325.090	200.03000	.27014	.00791	.34215	-.02734	.00225	.00016	.00179	.01191	.23581
-9.977	349.780	199.95000	-.03457	.00310	.30029	-.02685	.00183	.00022	.00127	.01627	.23587
-10.029	399.970	200.09000	-.03201	.00211	.21653	-.02337	.00152	.00033	.00087	.01701	.23599
-10.026	450.020	200.18000	.02688	.00144	.17475	-.02338	.00160	.00021	.00055	.01376	.23617
-10.050	500.280	200.28000	-.01461	.00145	.14152	-.02039	.00086	.00037	.00037	.01074	.23640
-10.065	600.690	200.34000	.43230	.00306	.11918	-.01149	.00045	.00055	.00037	.01501	.23588
-10.068	700.530	200.35000	-.01371	.00038	.08655	-.00554	.00027	.00042	.00026	.01665	.23602
-9.942	799.130	200.11000	-.25420	.00325	.07944	-.00725	.00020	.00043	.00022	.01741	.23617
-9.973	999.120	200.09000	.05556	.00283	.07941	-.00726	.00013	.00040	.00022	.01738	.23686
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK006) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2683/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.036	175.230	200.22000	-.17605	.00058	.22690	.00319	.00153	-.00001	.00173	.01604	.23671
-5.014	199.680	200.15000	.24876	.00363	.22655	-.00408	.00174	-.00014	.00112	.01807	.23674
-5.016	249.950	200.13000	-.11315	.00093	.21240	-.01133	.00022	.00020	.00119	.02277	.23669
-5.050	300.350	200.30000	-.18009	-.00033	.17279	-.01801	.00037	.00035	.00069	.02081	.23658
-5.051	400.280	200.22000	-.13447	-.00249	.11036	-.01616	-.00000	.00027	.00104	.01516	.23660
-5.035	500.550	200.32000	.24723	.01053	.09323	-.00950	.00001	.00034	.00030	.02002	.23706
-5.052	600.370	200.23000	.10136	.00302	.07190	-.00729	.00003	.00034	.00021	.02090	.23640
-4.936	699.610	200.21000	-.49033	-.00473	.07168	-.00760	.00005	.00038	.00021	.02081	.23706
-4.942	799.640	200.15000	-.18349	.00187	.07238	-.00763	.00012	.00035	.00021	.02085	.23655
-5.014	999.440	200.26000	.45420	.00334	.07270	-.00760	-.00004	.00035	.00021	.02065	.23707
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2687/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-.546	50.604	200.15000	-.08377	.00415	.18756	.02553	-.00041	.00008	.00079	.02289	.23671
-.536	100.300	200.20000	.01762	.00351	.18349	.01185	-.00020	.00015	.00093	.02097	.23653
-.520	149.630	200.29000	.16918	.00391	.17559	-.00204	-.00078	.00015	.00113	.02341	.23617
-.566	160.720	200.23000	-.04500	.00027	.17172	-.00397	-.00081	.00016	.00104	.02324	.23638
-.546	300.190	200.24000	-.19023	-.00190	.11194	-.01346	-.00038	.00041	.00000	.01668	.23629
-.554	400.270	200.23000	-.19723	-.00103	.09707	-.01004	-.00031	.00034	.00022	.01832	.23629
-.544	500.080	200.21000	.22731	.00332	.07682	-.00764	-.00035	.00033	.00019	.01951	.23626
-.446	599.750	200.24000	.13571	.00731	.07232	-.00748	-.00039	.00033	.00021	.01936	.23617
-.516	799.250	200.34000	.22485	.00533	.07220	-.00746	-.00028	.00035	.00021	.01932	.23611
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(O4RC) W/ET SEPARATING (SVK006) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2671/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.016	625.570	-10.01500	-.00199	-.00061	.04829	-.02689	.06121	.01013	-.00055	.00398
-20.043	700.840	-10.02000	-.00193	.00027	-.04276	-.02979	.05546	.01043	-.00064	.00204
-19.999	799.950	-10.01500	-.00197	.00272	-.11935	-.02394	.05099	.01167	-.00057	-.00019
-20.053	1001.100	-10.00300	-.00221	-.00335	-.18037	-.00359	.05035	.00908	-.00007	-.00011
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2675/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.989	474.630	-10.01200	-.00202	-.00307	.01308	-.02478	.05970	.00967	-.00049	.00174
-15.016	500.220	-10.01200	-.00174	.00305	-.03341	-.02205	.06016	.01131	-.00075	.00123
-15.029	550.320	-10.01500	-.00170	-.00427	-.05408	-.02132	.05803	.01103	-.00079	.00082
-15.056	600.750	-10.01400	-.00161	-.00162	-.14235	-.01810	.05307	.01060	-.00083	.00077
-15.075	700.680	-10.00300	-.00212	.00353	-.17175	-.00945	.05477	.00830	-.00022	.00067
-15.009	799.630	-10.00300	-.00201	.00484	-.19574	-.00308	.05682	.00832	-.00025	-.00004
-14.931	999.700	-9.99300	-.00159	.01382	-.25807	.00346	.06248	.00776	-.00056	.00029
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2679/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.992	325.090	-10.00450	-.00157	.00791	.00435	-.01624	.05546	.00973	-.00079	.00184
-9.977	349.780	-10.00750	-.00165	.00310	-.03761	-.01745	.06283	.00932	-.00073	.00131
-10.029	399.970	-10.00700	-.00172	.00211	-.12124	-.01228	.06155	.00901	-.00062	.00092
-10.026	450.020	-10.00900	-.00159	.00144	-.18619	-.01227	.05833	.00809	-.00075	.00069
-10.050	500.290	-10.00300	-.00172	.00145	-.19350	-.00928	.05534	.00835	-.00059	.00042
-10.066	600.690	-10.00100	-.00179	.00300	-.21632	-.00039	.05958	.00794	-.00041	.00041
-10.068	700.630	-10.00000	-.00162	.00039	-.24050	.00258	.06128	.00777	-.00054	.00030
-9.942	799.130	-9.99700	-.00162	.00335	-.23922	.00388	.06207	.00771	-.00052	.00027
-9.973	999.120	-9.99900	-.00159	.00233	-.25931	.00387	.06206	.00763	-.00055	.00027
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK006) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2683/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.036	175.230	-9.99230	-.00100	.00058	-.10257	.01402	.05949	.00884	-.00094	.00177
-5.014	199.880	-9.99370	-.00097	.00363	-.10290	.00674	.06152	.00904	-.00107	.00117
-5.016	249.950	-9.99640	-.00140	.00093	-.11757	-.00048	.06629	.00753	-.00073	.00123
-5.050	300.350	-10.00470	-.00167	-.00033	-.15788	-.00714	.06442	.00770	-.00058	.00073
-5.051	400.280	-10.00610	-.00157	-.00249	-.22039	-.00530	.05878	.00733	-.00066	.00109
-5.066	500.550	-10.00050	-.00156	.01053	-.24546	.00137	.06363	.00734	-.00059	.00035
-5.052	600.370	-9.99030	-.00154	.00202	-.25876	.00328	.06451	.00735	-.00059	.00025
-4.936	699.510	-9.99020	-.00157	-.00473	-.25029	.00327	.06446	.00738	-.00055	.00026
-4.942	799.640	-10.00000	-.00154	.00187	-.25032	.00327	.06458	.00747	-.00059	.00026
-5.014	999.440	-10.00000	-.00154	.00034	-.25904	.00330	.06440	.00731	-.00058	.00025
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2687/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.546	50.604	-9.99551	-.00081	.00415	-.14363	.03441	.06557	.00693	-.00085	.00084
-.536	100.300	-9.97611	-.00104	.00351	-.14235	.02272	.06460	.00713	-.00078	.00097
-.520	149.630	-9.99085	-.00122	.00391	-.15454	.00330	.06395	.00853	-.00078	.00117
-.556	160.720	-9.99130	-.00125	.00027	-.15941	.00688	.06578	.00651	-.00077	.00108
-.546	300.190	-10.00351	-.00167	-.00190	-.21816	-.00261	.06022	.00693	-.00052	.00005
-.554	400.270	-10.00080	-.00156	-.00103	-.24238	.00081	.06185	.00701	-.00059	.00026
-.544	500.090	-9.99059	-.00152	.00532	-.25735	.00321	.06305	.00697	-.00060	.00024
-.446	598.750	-9.99937	-.00152	.00731	-.25314	.00337	.06294	.00693	-.00060	.00025
-.516	799.250	-9.99944	-.00154	.00538	-.25540	.00340	.06292	.00704	-.00058	.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK006) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2671/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.016	625.570	200.13000	.02279	.15827	.04713	436.38000	.00000	.00000	653.08000	.00000	.00000
-20.043	700.840	200.26000	-.01517	.01377	-.15392	436.28000	.00000	.00000	652.81000	.00000	.00000
-19.999	799.950	199.93000	-.09476	.03330	.01127	435.49000	.00000	.00000	653.25000	.00000	.00000
-20.053	1001.100	200.34000	-.12857	.04909	-.06946	435.28000	.00000	.00000	651.44000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2675/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.989	474.890	199.97000	-.37213	.10088	-.00332	444.35000	.00000	.00000	665.07000	.00000	.00000
-15.016	500.220	200.00300	.37447	.01957	-.12803	444.02000	.00000	.00000	664.52000	.00000	.00000
-15.029	550.390	200.07000	-.45874	.01785	-.12009	443.50000	.00000	.00000	663.73000	.00000	.00000
-15.056	600.750	200.27000	-.00126	.03033	.03032	442.83000	.00000	.00000	662.74000	.00000	.00000
-15.075	700.630	200.33000	.09102	.03317	-.03393	442.22000	.00000	.00000	661.82000	.00000	.00000
-15.009	799.630	200.13000	.24703	.03785	-.03335	441.70000	.00000	.00000	661.14000	.00000	.00000
-14.931	993.700	199.83000	.23410	.04936	-.04124	440.45000	.00000	.00000	659.17000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2679/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.982	325.090	200.03000	.27014	.04612	-.04284	447.14000	.00000	.00000	669.19000	.00000	.00000
-9.977	349.780	199.93000	-.03457	.01035	-.10309	447.62000	.00000	.00000	669.35000	.00000	.00000
-10.029	393.970	200.03000	-.03301	-.00907	-.11623	447.19000	.00000	.00000	669.12000	.00000	.00000
-10.026	450.020	200.18000	.02003	.01154	-.03514	447.34000	.00000	.00000	669.48000	.00000	.00000
-10.050	500.290	200.29000	-.01461	.02774	.03019	447.57000	.00000	.00000	669.82000	.00000	.00000
-10.066	600.690	200.54000	.43320	.01930	.00357	447.41000	.00000	.00000	669.59000	.00000	.00000
-10.053	700.630	200.33000	-.01371	.02113	.00325	447.61000	.00000	.00000	670.25000	.00000	.00000
-9.942	799.130	200.11000	-.23420	.02306	-.00334	448.33000	.00000	.00000	670.90000	.00000	.00000
-9.973	998.120	200.03000	.00085	.02732	-.01116	448.37000	.00000	.00000	671.03000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2683/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.036	175.230	200.22000	-.17605	.03095	.01943	436.1 3000	.00000	.00000	652.69000	.00000	.00000
-5.014	199.880	200.15000	.24876	.01409	-.00305	436.0 9000	.00000	.00000	652.65000	.00000	.00000
-5.016	249.950	200.13000	-.11315	-.00652	-.04709	436.7 3000	.00000	.00000	653.68000	.00000	.00000
-5.050	300.350	200.30000	-.18009	-.05604	-.10512	437.7 3000	.00000	.00000	655.06000	.00000	.00000
-5.051	400.280	200.29000	-.13447	.00747	.02095	437.8 3000	.00000	.00000	655.20000	.00000	.00000
-5.066	500.560	200.33000	.64723	.00958	.01943	437.7 2000	.00000	.00000	655.09000	.00000	.00000
-5.052	600.370	200.25000	.10135	.00986	.01507	437.7 3000	.00000	.00000	655.05000	.00000	.00000
-4.986	699.510	200.21000	-.49553	.01126	.01377	438.1 3000	.00000	.00000	655.66000	.00000	.00000
-4.942	799.640	200.15000	-.16349	.01286	.01059	438.5 3000	.00000	.00000	656.90000	.00000	.00000
-5.014	899.440	200.26000	.45420	.01559	.00539	439.1 3000	.00000	.00000	657.19000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0 3000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2687/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.546	50.604	200.15000	-.06577	.01820	.02093	438.3 3000	.00000	.00000	656.09000	.00000	.00000
-.536	100.300	200.20000	.01782	.01382	.01793	437.9 3000	.00000	.00000	655.39000	.00000	.00000
-.520	149.630	200.22000	.18919	-.00537	.00051	437.0 3000	.00000	.00000	654.00000	.00000	.00000
-.586	160.720	200.23000	-.04500	-.01232	-.01033	435.9 3000	.00000	.00000	654.00000	.00000	.00000
-.546	300.190	200.24000	-.19029	-.00785	.01228	436.9 3000	.00000	.00000	653.94000	.00000	.00000
-.554	400.270	200.23000	-.19715	.00459	.02831	436.8 3000	.00000	.00000	653.83000	.00000	.00000
-.544	500.090	200.21000	.32731	.00398	.02497	437.0 3000	.00000	.00000	654.09000	.00000	.00000
-.446	598.750	200.24000	.13571	.00438	.02323	437.4 3000	.00000	.00000	654.65000	.00000	.00000
-.516	799.250	200.34000	.22465	.00514	.02202	437.6 3000	.00000	.00000	654.94000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2671/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.016	625.570	981.17000	981.17000	74.00000	981.17000	978.50999	76.00000	72.00000	28.30000	99.51600
-20.043	700.840	981.25000	981.25000	74.00000	981.25000	978.50999	76.00000	72.00000	25.13500	99.51600
-19.999	799.950	981.90000	981.90000	74.00000	981.90000	978.50999	76.00000	72.00000	13.52800	99.51600
-20.053	1001.100	978.71000	978.71000	74.00000	978.71000	978.50999	76.00000	72.00000	17.04800	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2675/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.989	474.890	988.68000	988.68000	73.00000	988.68000	984.28599	75.00000	72.00000	18.21500	99.51600
-15.016	500.220	988.54000	988.54000	73.00000	988.54000	984.28599	75.00000	72.00000	16.87600	99.51600
-15.029	550.390	988.35000	988.35000	73.00000	988.35000	984.28599	75.00000	72.00000	12.28400	99.51600
-15.056	600.750	987.36000	987.36000	73.00000	987.36000	984.28599	75.00000	72.00000	3.67260	99.51600
-15.075	700.690	986.48000	986.48000	73.00000	986.48000	984.28599	75.00000	72.00000	-.91819	99.51600
-15.009	799.630	985.93000	985.93000	73.00000	985.93000	984.28599	75.00000	72.00000	2.11480	99.51600
-14.931	999.700	984.48000	984.48000	73.00000	984.48000	984.28599	75.00000	72.00000	9.35540	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2679/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.992	325.090	979.70000	979.70000	72.00000	979.70000	983.68599	74.00000	71.00000	8.92770	99.51600
-9.977	349.780	980.00000	980.00000	72.00000	980.00000	983.68599	74.00000	71.00000	7.44680	99.51600
-10.029	399.970	979.80000	979.80000	72.00000	979.80000	983.68599	74.00000	71.00000	3.14430	99.51600
-10.026	450.020	980.12000	980.12000	72.00000	980.12000	983.68599	74.00000	71.00000	-3.39910	99.51600
-10.050	500.290	980.63000	980.63000	72.00000	980.63000	983.68599	74.00000	71.00000	-6.87210	99.51600
-10.066	600.690	980.77000	980.77000	72.00000	980.77000	983.68599	74.00000	71.00000	-6.02320	99.51600
-10.068	700.630	981.79000	981.79000	72.00000	981.79000	983.68599	74.00000	71.00000	-4.12930	99.51600
-9.942	799.130	982.69000	982.69000	72.00000	982.69000	983.68599	74.00000	71.00000	-2.83370	99.51600
-9.973	999.120	982.68000	982.68000	72.00000	982.68000	983.68599	74.00000	71.00000	-1.29060	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (UVK006) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.036	175.230	991.06000	991.06000	71.00000	981.0600)	979.87000	73.00000	70.00000	-1.93390	99.51600
-5.014	199.630	981.00000	981.00000	71.00000	981.0000)	979.87000	73.00000	70.00000	-1.27190	99.51600
-5.016	249.950	980.62000	980.62000	71.00000	980.6200)	979.87000	73.00000	70.00000	-2.78550	99.51600
-5.050	300.350	980.76000	980.76000	71.00000	980.7600)	979.87000	73.00000	70.00000	-5.93900	99.51600
-5.051	400.280	980.48000	980.48000	71.00000	980.4800)	979.87000	73.00000	70.00000	-7.65680	99.51600
-5.066	500.550	980.32000	980.32000	71.00000	980.3200)	979.87000	73.00000	70.00000	-7.04730	99.51600
-5.052	600.370	980.27000	980.27000	71.00000	980.2700)	979.87000	73.00000	70.00000	-6.30240	99.51600
-4.966	699.510	980.21000	980.21000	71.00000	980.2100)	979.87000	73.00000	70.00000	-5.51780	99.51600
-4.942	798.640	980.13000	980.13000	71.00000	980.1300)	979.87000	73.00000	70.00000	-4.84000	99.51600
-5.014	999.440	980.07000	980.07000	71.00000	980.0700)	979.87000	73.00000	70.00000	-3.84850	99.51600
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000

RUN NO. 2697/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.546	50.604	979.68000	979.68000	72.00000	979.6800)	979.41000	75.00000	70.00000	-5.78090	99.64200
-.536	100.300	979.81000	979.81000	72.00000	979.8100)	979.41000	75.00000	70.00000	-4.90350	99.64200
-.520	149.630	979.65000	979.65000	72.00000	979.6500)	979.41000	75.00000	70.00000	-5.16030	99.64200
-.566	160.720	979.63000	979.63000	72.00000	979.6300)	979.41000	75.00000	70.00000	-6.32030	99.64200
-.546	300.190	979.53000	979.53000	72.00000	979.5300)	979.41000	75.00000	70.00000	-7.29490	99.64200
-.554	400.270	979.65000	979.52000	72.00000	979.5200)	979.41000	75.00000	70.00000	-7.46090	99.64200
-.544	500.090	979.78000	979.78000	72.00000	979.7800)	979.41000	75.00000	70.00000	-7.30250	99.64200
-.446	598.750	979.65000	979.65000	72.00000	979.6500)	979.41000	75.00000	70.00000	-7.11940	99.64200
-.516	799.250	979.61000	979.61000	72.00000	979.6100)	979.41000	75.00000	70.00000	-6.78380	99.64200
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000

V418-D8A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK008) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2671/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.016	625.570	200.13000	.02279	-30.03100	-.00260	-.62856	-.07269	.02586	.00148	.00152	.11964
-20.043	700.840	200.26000	-.01517	-30.05300	-.00167	-.63517	-.06746	.02729	-.00006	.00176	.13118
-19.999	799.950	199.95000	-.00476	-30.01700	.00075	-.67159	-.04142	.02829	-.00126	.00167	.13269
-20.053	1001.100	200.34000	-.12857	-30.05000	-.00456	-.76820	.03592	.02893	-.00374	.00163	.17979
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2675/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.989	474.890	199.97000	-.37213	-25.00100	-.00509	-.50115	-.05328	.01669	.00210	.00150	.12398
-15.016	500.220	200.08000	.37447	-25.02300	.00331	-.48373	-.07521	.01735	.00204	.00108	.11300
-15.029	550.390	200.07000	-.45874	-25.04400	-.00385	-.48717	-.07339	.01947	.00082	.00117	.11650
-15.056	600.750	200.27000	-.08126	-25.07000	-.00323	-.50411	-.05289	.02100	.00010	.00119	.11550
-15.075	700.680	200.39000	.09102	-25.08300	-.00159	-.54107	-.03413	.02204	-.00138	.00119	.12584
-15.009	799.630	200.13000	.24703	-25.01200	.00293	-.57936	.00053	.02305	-.00286	.00112	.14679
-14.931	999.700	199.83000	.23410	-24.93000	.01234	-.60766	.04529	.02301	-.00509	.00134	.18643
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2679/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.992	325.090	200.03000	.27014	-19.98600	.00634	-.42575	-.03729	.01784	-.00075	.00113	.13016
-9.977	349.780	199.95000	-.03457	-19.99400	.00145	-.39461	-.05205	.01517	.00057	.00106	.12025
-10.029	399.970	200.09000	-.03201	-20.03600	.00039	-.35903	-.07333	.01351	.00131	.00066	.10389
-10.026	450.020	200.18000	.02933	-20.03500	-.00016	-.37124	-.05538	.01433	.00104	.00078	.10538
-10.050	500.280	200.29000	-.01461	-20.05000	-.00027	-.38020	-.05506	.01420	.00081	.00088	.11082
-10.066	600.690	200.34000	.43220	-20.06700	.00421	-.41795	-.02658	.01497	-.00029	.00085	.11808
-10.068	700.630	200.35000	-.01371	-20.06800	-.00124	-.44033	.00164	.01540	-.00169	.00064	.13593
-9.942	799.130	200.11000	-.26420	-19.94100	.00163	-.47025	.02924	.01487	-.00264	.00066	.15928
-9.973	999.120	200.09000	.05566	-19.97200	.00124	-.36452	-.01893	.00922	.00035	.00021	.13013
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-09A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK006) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2683/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.036	175.230	200.22000	-.17605	-15.01800	-.00042	-.28767	-.05866	.00753	.00090	.00036	.10918
-5.014	199.880	200.15000	.24876	-15.00400	.00267	-.29380	-.05041	.00533	.00123	.00033	.10963
-5.016	249.950	200.13000	-.11315	-15.01200	-.00048	-.28103	-.05538	.01223	.00078	.00043	.10531
-5.050	300.350	200.30000	-.18009	-15.05500	-.00200	-.27069	-.06016	.00990	.00110	.00040	.03965
-5.051	400.220	200.25000	-.13447	-15.05700	-.00406	-.29025	-.04230	.00894	.00116	.00051	.10567
-5.065	500.530	200.33000	.64723	-15.06300	.00397	-.31109	-.02074	.01085	-.00003	.00050	.11316
-5.052	600.370	200.25000	.10135	-15.05200	.00049	-.33013	.00383	.01074	-.00097	.00033	.12516
-4.986	699.510	200.21000	-.49053	-14.98300	-.00630	-.33935	.02184	.01078	-.00177	.00038	.14534
-4.942	799.640	200.15000	-.16549	-14.94200	.00033	-.29300	.00407	.00980	-.00121	.00041	.13700
-5.014	999.440	200.26000	.45420	-15.01400	.00680	-.21603	-.03975	.00606	.00072	.00011	.10787
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2687/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.546	50.604	200.15000	-.08677	-10.51200	.00335	-.22460	-.05759	.01157	-.00008	.00029	.10097
-.536	100.300	200.20000	.01782	-10.51200	.00247	-.21287	-.05018	.00299	.00189	.00017	.10284
-.520	149.630	200.25000	.16818	-10.51000	.00269	-.19549	-.05022	.00112	.00242	.00021	.09760
-.565	160.720	200.23000	-.04500	-10.55700	-.00058	-.19579	-.05099	.00105	.00226	.00021	.09487
-.546	300.190	200.24000	-.19029	-10.55000	-.00358	-.21020	- 03196	.00414	.00154	.00025	.09891
-.554	400.270	200.23000	-.19725	-10.55500	-.00259	-.22416	-.01419	.00521	-.00004	.00023	.10644
-.544	500.090	200.21000	.32731	-10.54400	.00380	-.23483	.00467	.00895	-.00071	.00015	.11504
-.446	599.750	200.24000	.13571	-10.44500	.00579	-.23355	.01693	.00682	-.00109	.00011	.12593
-.516	799.250	200.34000	.22485	-10.51500	.00334	-.14237	-.02918	.00490	.00034	-.00005	.09754
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC.) W/ET SEPARATING (RVK007) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2672/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.029	623.390	400.12000	.13076	-.00180	.27568	-.04367	.00400	.00016	.00134	.00862	.23677
-20.001	700.100	400.05000	-.12136	.00446	.19751	-.03301	.00392	.00018	.00056	.00587	.23667
-19.956	799.650	399.78000	-.20103	.00374	.16246	-.02068	.00157	.00082	.00061	.01111	.23699
-19.903	998.330	399.53000	.02385	.00577	.02439	-.00950	.00039	.00040	.00027	.01840	.23716
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2676/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.012	475.190	400.12000	-.04187	.00209	.28528	-.03844	.00274	.00043	.00090	.00779	.23918
-15.047	500.520	400.19000	.39255	.00558	.23189	-.02979	.00237	.00039	.00087	.01127	.23885
-15.028	550.230	400.10000	-.20183	-.00185	.17779	-.02524	.00218	.00039	.00064	.00971	.23922
-14.993	599.700	399.50000	.23176	.00770	.15557	-.02151	.00222	.00041	.00018	.00915	.23939
-14.983	699.650	399.92000	.37708	.00755	.12304	-.01279	.00097	.00064	.00028	.01409	.23922
-14.959	799.000	399.97000	.13239	.00305	.08195	-.00812	.00040	.00042	.00027	.01721	.23947
-15.017	999.730	400.17000	-.37526	-.00518	.07681	-.00744	.00013	.00043	.00024	.01801	.23703
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2680/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.063	326.090	400.29000	.47214	.0636	.27526	-.02032	.00111	.00043	.00147	.01132	.23624
-9.997	349.620	400.08000	-.06730	-.00117	.25517	-.02394	.00100	.00055	.00113	.01391	.23680
-10.051	399.840	400.21000	-.08285	.00094	.18938	-.02219	.00141	.00046	.00055	.01522	.23625
-10.009	449.550	400.11000	-.31922	-.00327	.15012	-.02130	.00106	.00036	.00032	.01118	.23670
-9.995	499.450	400.07000	-.00444	.00327	.13339	-.01621	.00101	.00059	.00016	.01145	.23676
-9.984	599.100	400.02000	.33786	.00843	.10153	-.01023	.00039	.00043	.00035	.01588	.23682
-9.959	698.760	399.93000	-.12878	.00240	.07909	-.00727	.00020	.00043	.00022	.01736	.23672
-9.959	798.540	399.93000	-.17029	.00143	.07915	-.00727	.00036	.00043	.00022	.01739	.23675
-9.954	998.200	400.03000	.17207	.00745	.07946	-.00727	.00011	.00041	.00022	.01748	.23689
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK007) (20 APR 77)

REFERENCE DATA

SREF =	2590.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.026	175.160	400.07000	.18690	.00670	.21637	.00185	.00003	.00018	.00097	.01374	.23661
-4.996	199.370	400.11000	-.18358	-.00301	.22897	-.00419	.00061	.00008	.00083	.01857	.23633
-4.995	249.200	400.19000	.00414	.00170	.21359	-.01254	-.00009	.00035	.00079	.01915	.23634
-5.029	299.610	400.18000	-.00747	-.00037	.17517	-.01815	.00087	.00032	.00062	.01617	.23554
-4.998	399.120	400.14000	-.35356	.00118	.12037	-.01490	.00031	.00038	.00016	.01257	.23706
-4.970	498.750	400.13000	.09319	.00202	.08357	-.00830	.00039	.00031	.00022	.01687	.23663
-4.967	599.550	400.13000	.18332	.00573	.07657	-.00758	.00011	.00033	.00020	.01754	.23674
-4.965	698.610	400.10000	.33334	.00708	.07701	-.00759	.00030	.00034	.00021	.01774	.23689
-4.981	798.630	400.23000	.08250	.00318	.07739	-.00757	.00017	.00033	.00021	.01804	.23700
-5.084	1000.000	400.34000	-.04632	-.00270	.07579	-.00756	.00048	.00035	.00022	.01873	.23167
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2688/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.513	49.723	400.17000	-.51370	-.00370	.18122	.02093	-.00091	.00012	.00101	.01707	.23658
-.477	98.820	400.22000	-.57051	-.00215	.17817	00812	.00001	.00018	.00073	.01702	.23641
-.495	149.140	400.21000	.33075	.00570	.19117	-.00346	-.00030	.00024	.00079	.02344	.23605
-.506	159.550	400.14000	.38447	.00678	.19142	-.00552	-.00066	.00028	.00067	.02335	.23611
-.513	298.950	400.34000	-.17058	-.00393	.10581	-.01499	-.00029	.00026	.00081	.01517	.23631
-.478	398.690	400.26000	-.26532	-.00011	.08721	-.00916	-.00027	.00036	.00026	.01837	.23635
-.474	499.560	400.21000	-.03029	.00432	.07798	-.00727	-.00030	.00036	.00019	.01907	.23649
-.471	598.550	400.24000	-.38281	-.00108	.07496	-.00728	-.00039	.00034	.00020	.01908	.23637
-.508	799.790	400.27000	-.03194	.00151	.07519	-.00730	-.00040	.00036	.00020	.01909	.23667
-.548	879.820	400.22000	-.12970	-.00146	.07519	-.00727	-.00028	.00035	.00020	.01909	.23652
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2672/ 0 RN/L = .68 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.029	625.390	-10.02300	-.00185	-.00180	-.05419	-.03283	.05213	.01131	-.00077	.00139
-20.001	700.100	-10.01700	-.00174	.00146	-.13237	-.02217	.04937	.01113	-.00075	.00060
-19.956	799.660	-10.00700	-.00225	.00374	-.16765	-.00983	.05464	.00889	-.00011	.00065
-19.903	938.380	-10.00100	-.00163	.00577	-.24571	.00135	.06194	.00771	-.00054	.00032
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2676/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.012	475.190	-10.01800	-.00206	.00209	-.05167	-.02837	.05222	.01021	-.00052	.00095
-15.047	500.590	-10.01200	-.00189	.00559	-.10525	-.01871	.05573	.00984	-.00056	.00092
-15.028	550.230	-10.01100	-.00184	-.00165	-.15990	-.01414	.05424	.00966	-.00057	.00068
-14.993	599.780	-10.00300	-.00182	.00770	-.18128	-.01041	.05371	.00970	-.00055	.00023
-14.983	639.650	-10.00200	-.00194	.00755	-.21078	-.00172	.05351	.00843	-.00031	.00032
-14.969	799.000	-10.00000	-.00163	.00305	-.25341	.00290	.06144	.00783	-.00053	.00031
-15.017	999.730	-9.99900	-.00163	-.00518	-.25923	.00357	.06220	.00755	-.00051	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2680/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.053	326.090	-10.00100	-.00176	.00336	-.03262	-.00921	.05588	.00860	-.00053	.00151
-9.997	349.620	-10.00350	-.00194	-.00117	-.09393	-.01273	.05949	.00848	-.00040	.00118
-10.051	399.640	-10.00700	-.00184	.00094	-.14633	-.01109	.05230	.00830	-.00050	.00060
-10.009	449.550	-10.00600	-.00172	-.00327	-.18783	-.01020	.05575	.00855	-.00050	.00037
-9.995	499.450	-10.00460	-.00190	.00327	-.20195	-.00509	.05507	.00851	-.00037	.00020
-9.984	599.100	-10.00060	-.00165	.00343	-.23592	.00089	.06051	.00769	-.00052	.00039
-9.959	658.760	-9.99810	-.00151	.00240	-.23945	.00395	.05201	.00770	-.00053	.00026
-9.959	798.540	-9.99370	-.00162	.00143	-.23037	.00333	.05207	.00786	-.00052	.00026
-9.954	998.200	-9.98810	-.00159	.00745	-.25223	.00386	.06215	.00762	-.00054	.00027
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK007) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.026	175.160	-9.99450	-.00121	.00670	-.11417	.01271	.05733	.00736	-.00075	.00101
-4.996	199.370	-9.99870	-.00118	-.00301	-.10255	.00670	.06230	.00796	-.00086	.00087
-4.995	249.200	-9.99770	-.00159	.00170	-.11897	-.00161	.06302	.00728	-.00059	.00084
-5.029	299.610	-10.00400	-.00165	-.00087	-.15904	-.00720	.06012	.00825	-.00062	.00066
-4.998	399.120	-10.00420	-.00167	.00118	-.21331	-.00393	.05662	.00771	-.00056	.00021
-4.970	498.750	-9.99830	-.00152	.00302	-.25028	.00236	.06090	.00779	-.00063	.00027
-4.967	598.660	-9.99880	-.00153	.00573	-.25740	.00340	.06159	.00751	-.00061	.00024
-4.965	699.610	-9.99850	-.00154	.00708	-.25715	.00340	.06181	.00771	-.00060	.00026
-4.981	798.680	-9.99880	-.00153	.00318	-.25704	.00342	.06215	.00758	-.00061	.00025
-5.084	1000.000	-9.99840	-.00155	-.00270	-.25716	.00339	.06264	.00795	-.00059	.00027
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2688/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.513	49.723	-9.99834	-.00087	-.00670	-.15109	.03195	.06089	.00646	-.00082	.00105
-.477	98.820	-9.99867	-.00113	-.00215	-.15426	.01905	.06087	.00738	-.00076	.00078
-.495	149.140	-9.99807	-.00133	.00570	-.14157	.00747	.06732	.00658	-.00070	.00093
-.506	159.550	-9.99273	-.00140	.00378	-.14124	.00541	.06722	.00672	-.00056	.00072
-.513	298.950	-10.00452	-.00153	-.00393	-.22306	-.00405	.05907	.00708	-.00068	.00086
-.478	398.690	-10.00004	-.00157	-.00011	-.24559	.00178	.06226	.00711	-.00058	.00030
-.474	499.550	-9.99934	-.00154	.00432	-.25809	.00357	.06299	.00708	-.00058	.00024
-.471	598.550	-9.99937	-.00152	-.00108	-.25793	.00336	.06298	.00700	-.00059	.00024
-.508	798.790	-9.99814	-.00154	.00151	-.25817	.00365	.06305	.00699	-.00058	.00024
-.548	879.820	-9.99948	-.00153	-.00146	-.25797	.00358	.06303	.00710	-.00059	.00025
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O+RC1) W/ET SEPARATING (TVK007) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2672/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.029	625.390	400.12000	.13076	.02380	-.14247	436.65000	.00000	.00000	653.48000	.00000	.00000
-20.001	700.100	400.05000	-.12136	.11621	.02592	436.66000	.00000	.00000	653.50000	.00000	.00000
-19.956	799.650	399.76000	-.20103	.05292	-.06943	436.56000	.00000	.00000	653.96000	.00000	.00000
-19.903	998.380	399.53000	.02396	.05912	-.06690	436.96000	.00000	.00000	653.95000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2676/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.012	475.190	400.12000	-.04187	.01993	-.12692	446.01000	.00000	.00000	667.50000	.00000	.00000
-15.047	500.580	400.19000	.36255	.01151	-.14510	446.27000	.00000	.00000	667.68000	.00000	.00000
-15.028	550.230	400.10000	-.20188	.05228	-.01621	447.00000	.00000	.00000	668.97000	.00000	.00000
-14.993	599.700	399.92000	.28176	.03540	-.04983	447.21000	.00000	.00000	669.29000	.00000	.00000
-14.983	699.650	399.92000	.37738	.05333	-.03553	445.65000	.00000	.00000	667.25000	.00000	.00000
-14.989	799.000	399.97000	.13239	.05378	-.05803	443.91000	.00000	.00000	664.35000	.00000	.00000
-15.017	899.730	400.17000	-.37826	.04239	-.04124	443.50000	.00000	.00000	663.74000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2680/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.033	326.090	400.29000	.47214	.01212	-.08200	447.25000	.00000	.00000	669.35000	.00000	.00000
-9.997	349.620	400.02000	-.06730	.00699	-.05943	447.41000	.00000	.00000	669.59000	.00000	.00000
-10.051	399.640	400.21000	-.00335	.01035	-.10339	447.42000	.00000	.00000	669.61000	.00000	.00000
-10.009	449.580	400.11000	-.31922	.07334	.00044	447.33000	.00000	.00000	669.54000	.00000	.00000
-9.995	499.450	400.07000	-.00444	.04694	-.03270	447.85000	.00000	.00000	670.24000	.00000	.00000
-9.994	599.100	400.00000	.33765	.04484	-.03549	448.01000	.00000	.00000	670.48000	.00000	.00000
-9.959	699.750	399.95000	-.12878	.03922	-.03701	448.12000	.00000	.00000	670.65000	.00000	.00000
-9.959	799.540	399.95000	-.17028	.03358	-.02594	448.37000	.00000	.00000	671.02000	.00000	.00000
-9.954	998.200	400.05000	.17207	.02764	-.01632	448.33000	.00000	.00000	670.97000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (TVK007) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.026	175.160	400.07000	.18690	.01821	.01098	+37.53000	.00000	.00000	654.80000	.00000	.00000
-4.996	199.370	400.11000	-.18358	.00223	-.00672	+38.83000	.00000	.00000	656.75000	.00000	.00000
-4.995	249.200	400.19000	.00414	-.01153	-.03152	+40.33000	.00000	.00000	659.00000	.00000	.00000
-5.029	299.610	400.18000	-.00747	-.01755	-.05583	+41.07000	.00000	.00000	660.09000	.00000	.00000
-4.998	349.120	400.14000	-.35366	.02601	.00432	+41.70000	.00000	.00000	661.04000	.00000	.00000
-4.970	498.750	400.13000	.09319	.02207	-.00194	+41.91000	.00000	.00000	661.36000	.00000	.00000
-4.967	598.630	400.13000	.18832	.01891	-.00059	+42.03000	.00000	.00000	661.61000	.00000	.00000
-4.965	698.610	400.10000	.33234	.01695	.00124	+42.32000	.00000	.00000	661.98000	.00000	.00000
-4.981	798.690	400.23000	.02850	.01518	.00245	+42.69000	.00000	.00000	662.52000	.00000	.00000
-5.084	1000.000	400.34000	-.04632	.01245	.00704	+40.73000	.00000	.00000	659.60000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2668/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.513	49.723	400.17000	-.51370	.00383	.00934	+39.83000	.00000	.00000	658.31000	.00000	.00000
-.477	98.820	400.22000	-.57051	.01059	.02208	+40.04000	.00000	.00000	658.55000	.00000	.00000
-.495	149.140	400.21000	.33075	-.00170	.01210	+40.45000	.00000	.00000	659.17000	.00000	.00000
-.505	199.550	400.14000	.33447	-.00671	.00822	+40.34000	.00000	.00000	659.01000	.00000	.00000
-.513	298.930	400.31000	-.17053	-.01508	-.01086	+40.68000	.00000	.00000	659.43000	.00000	.00000
-.478	348.830	400.22000	-.20332	.00753	.00831	+40.82000	.00000	.00000	659.63000	.00000	.00000
-.474	498.530	400.21000	-.03029	.00727	.01857	+40.83000	.00000	.00000	659.81000	.00000	.00000
-.471	598.550	400.24000	-.38281	.00710	.01824	+40.65000	.00000	.00000	659.47000	.00000	.00000
-.508	798.790	400.27000	-.06194	.00642	.01692	+41.26000	.00000	.00000	660.39000	.00000	.00000
-.548	879.820	400.22000	-.12970	.00576	.02003	+41.01000	.00000	.00000	660.01000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04XC1) W/ET SEPARATING (UVK007) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2672/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.029	625.390	982.24000	982.24000	74.00000	982.240[0	982.05000	76.00000	72.00000	33.24600	99.51600
-20.001	706.100	982.75000	982.75000	74.00000	982.750[0	982.05000	76.00000	72.00000	32.85000	99.51600
-19.956	793.650	983.44000	983.44000	74.00000	983.440[0	982.05000	76.00000	72.00000	26.05500	99.51600
-19.903	999.380	983.91000	983.91000	74.00000	983.910[0	982.05000	76.00000	72.00000	15.95700	99.51600
	GRADIENT	.00000	.00000	.00000	.000[0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2676/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.012	475.190	991.50000	991.50000	73.00000	991.500[0	991.30000	75.00000	72.00000	22.94500	99.64200
-15.047	500.580	991.58000	991.58000	73.00000	991.580[0	991.30000	75.00000	72.00000	23.99800	99.64200
-15.028	550.230	992.21000	992.21000	73.00000	992.210[0	991.30000	75.00000	72.00000	25.07400	99.64200
-14.993	599.700	992.63000	992.69000	73.00000	992.690[0	991.30000	75.00000	72.00000	22.41200	99.64200
-14.983	699.660	993.18000	993.18000	73.00000	993.160[0	991.30000	75.00000	72.00000	16.02500	99.64200
-14.969	799.000	993.83000	993.83000	73.00000	993.830[0	991.30000	75.00000	72.00000	9.71900	99.64200
-15.017	999.730	981.51000	981.51000	73.00000	981.510[0	991.30000	75.00000	72.00000	2.83130	99.64200
	GRADIENT	.00000	.00000	.00000	.000[0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2680/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.063	326.090	979.93000	979.93000	72.00000	979.930[0	979.71939	74.00000	71.00000	7.68700	99.51600
-9.997	349.620	980.29000	980.29000	72.00000	980.290[0	979.71939	74.00000	71.00000	9.14690	99.51600
-10.051	399.840	980.32000	980.32000	72.00000	980.320[0	979.71939	74.00000	71.00000	12.82600	99.51600
-10.009	449.550	980.21000	980.21000	72.00000	980.210[0	979.71939	74.00000	71.00000	15.43700	99.51600
-9.935	499.450	980.75000	980.75000	72.00000	980.750[0	979.71939	74.00000	71.00000	13.92400	99.51600
-9.994	599.100	980.60000	980.60000	72.00000	980.600[0	979.71939	74.00000	71.00000	9.38650	99.51600
-9.959	699.760	980.66000	980.66000	72.00000	980.660[0	979.71939	74.00000	71.00000	5.39670	99.51600
-9.959	799.540	980.90000	980.90000	72.00000	980.900[0	979.71939	74.00000	71.00000	3.05300	99.51600
-9.954	999.200	980.82000	980.82000	72.00000	980.820[0	979.71939	74.00000	71.00000	.62220	99.51600
	GRADIENT	.00000	.00000	.00000	.000[0	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (UVK007) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000		
DBETA =	.000	X =	400.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLFBAL	TB1	TB2	DT	T
-5.026	175.160	982.78000	982.78000	84.00000	982.78000	982.56000	78.00000	70.00000	-5.87710	99.51600
-4.996	199.370	983.77000	983.77000	84.00000	983.77000	982.56000	78.00000	70.00000	-6.54700	99.51600
-4.995	249.200	984.70000	984.70000	84.00000	984.70000	982.56000	78.00000	70.00000	-6.03620	99.51600
-5.029	209.610	985.37000	985.37000	84.00000	985.37000	982.56000	78.00000	70.00000	-2.66930	99.51600
-4.999	349.120	985.30000	985.30000	84.00000	985.30000	982.56000	78.00000	70.00000	1.61870	99.51600
-4.970	493.750	987.23000	987.23000	84.00000	987.23000	982.56000	78.00000	70.00000	1.02040	99.51600
-4.987	593.630	987.63000	987.63000	84.00000	987.63000	982.56000	78.00000	70.00000	-.20336	99.51600
-4.995	698.610	988.18000	988.18000	84.00000	988.18000	982.56000	78.00000	70.00000	-1.59370	99.51600
-4.981	798.690	988.50000	988.50000	84.00000	988.50000	982.56000	78.00000	70.00000	-2.96300	99.51600
-5.084	1000.000	983.65000	983.65000	84.00000	983.65000	982.56000	78.00000	70.00000	-4.17870	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2688/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLFBAL	TB1	TB2	DT	T
-.513	49.723	980.28000	980.28000	72.00000	980.28000	980.06000	75.00000	70.00000	-12.35000	99.64200
-.477	98.820	980.16000	980.16000	72.00000	980.16000	980.06000	75.00000	70.00000	-12.16100	99.64200
-.495	149.140	980.59000	980.59000	72.00000	980.59000	980.06000	75.00000	70.00000	-11.73800	99.64200
-.506	159.550	980.36000	980.36000	72.00000	980.36000	980.06000	75.00000	70.00000	-10.81800	99.64200
-.513	289.930	980.49000	980.49000	72.00000	980.49000	980.06000	75.00000	70.00000	-7.80340	99.64200
-.478	393.630	980.27000	980.27000	72.00000	980.27000	980.06000	75.00000	70.00000	-5.51750	99.64200
-.474	493.550	980.57000	980.57000	72.00000	980.57000	980.06000	75.00000	70.00000	-4.94690	99.64200
-.471	593.550	980.07000	980.07000	72.00000	980.07000	980.06000	75.00000	70.00000	-5.15500	99.64200
-.508	793.790	980.46000	980.46000	72.00000	980.46000	980.06000	75.00000	70.00000	-5.66530	99.64200
-.548	879.820	980.33000	980.33000	72.00000	980.33000	980.06000	75.00000	70.00000	-6.13480	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D8A (IA22),ET SEPARATING FROM ORB (04RC1)

(AVK007) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DSETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMCLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2672/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.029	625.390	400.12000	.13076	-30.05200	-.00365	-.60361	-.09249	.02042	.00433	.00163	.11683
-20.001	700.100	400.08000	-.12136	-30.01200	.00271	-.60799	-.09979	.02396	.00223	.00160	.12736
-19.936	789.350	399.72000	-.20103	-29.95200	.00149	-.63181	-.09553	.02389	-.00007	.00177	.13750
-19.903	838.330	399.55000	.08005	-29.90400	.00414	-.72332	-.00101	.02701	-.00249	.00153	.15784
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2676/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.012	475.190	400.12000	-.04187	-25.03000	.00002	-.51651	-.06290	.01935	.00144	.00169	.13025
-15.047	500.530	400.19000	.30285	-25.08200	.00228	-.46748	-.03077	.01657	.00219	.00108	.11472
-15.028	550.230	400.10000	-.20193	-25.03000	-.00350	-.40305	-.02121	.01655	.00285	.00105	.11053
-14.993	599.700	399.92000	.28176	-25.00100	.00008	-.40897	-.07057	.01802	.00149	.00120	.12033
-14.983	649.630	399.98000	.37738	-24.98300	.00851	-.51912	-.05053	.01979	.00055	.00120	.12052
-14.959	799.000	399.97000	.12333	-24.93300	.00442	-.54423	-.03230	.02071	-.00095	.00115	.13011
-15.017	999.730	400.17000	-.37285	-25.01600	-.00780	-.61403	.03342	.02120	-.00312	.00101	.17140
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2680/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.063	326.090	400.28000	.47214	-20.05400	.00460	-.42279	-.05757	.01166	.00028	.00111	.12684
-9.997	349.620	400.08000	-.08730	-20.00300	-.00311	-.42612	-.05111	.01167	.00108	.00111	.13094
-10.051	399.840	400.21000	-.02305	-20.05200	-.00009	-.37189	-.07811	.01433	.00175	.00066	.10527
-10.009	449.550	400.11000	-.31922	-20.01700	-.00499	-.35200	-.03243	.01359	.00214	.00069	.10301
-9.985	499.450	400.07000	-.00444	-20.00000	.00137	-.37785	-.08939	.01547	.00120	.00077	.10928
-9.954	569.100	400.03000	.33705	-19.98100	.00478	-.38119	-.05343	.01335	.00097	.00078	.11326
-9.939	603.720	400.02000	-.12073	-19.97300	.00078	-.42032	-.02374	.01461	-.00022	.00074	.12316
-9.959	798.540	399.93000	-.17028	-19.98300	-.00019	-.44721	.00211	.01481	-.00157	.00054	.13763
-9.954	938.200	400.08000	.17207	-19.96300	.00835	-.44828	.02636	.01555	-.00359	.00087	.16490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK007) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2684/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.026	175.160	400.07000	.18690	-15.01100	.00549	-.30425	-.06172	.00168	.00045	.00025	.11050
-4.996	199.370	400.11000	-.18358	-14.98600	-.00419	-.31393	-.05504	.00220	.00116	.00040	.11336
-4.995	249.200	400.19000	.00414	-14.99300	.00012	-.31449	-.05129	.00399	.00163	.00042	.11344
-5.029	299.610	400.18000	-.00747	-15.03300	-.00252	-.28588	-.05842	.00530	.00325	.00047	.10435
-4.998	399.120	400.14000	-.35386	-15.00200	-.00050	-.27417	-.06278	.01036	.00151	.00047	.10084
-4.970	498.750	400.13000	.09319	-14.97000	.00150	-.29120	-.04206	.00794	.00140	.00044	.10672
-4.967	598.650	400.13000	.16332	-14.96700	.00519	-.30989	-.01979	.01019	-.00001	.00042	.11586
-4.965	699.610	400.19000	.33884	-14.96500	.00554	-.33297	.00297	.01045	-.00102	.00027	.12676
-4.991	798.690	400.23000	.02630	-14.99000	.00165	-.33334	.01837	.01068	-.00166	.00030	.14095
-5.084	1000.000	400.34000	-.04632	-15.08300	-.00425	-.23494	-.02938	.00615	.00102	.00003	.10730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.513	49.723	400.17000	-.51370	-10.48100	-.00757	-.21774	-.05214	.01061	.00012	.00016	.10714
-.477	99.820	400.22000	-.57051	-10.48300	-.00328	-.22650	-.05006	.01251	-.00081	-.00011	.10856
-.495	149.140	400.21000	.32075	-10.48600	.00437	-.23307	-.04469	.00981	-.00026	-.00010	.10458
-.506	199.550	400.14000	.38447	-10.48900	.00539	-.23181	-.04500	.00864	.00008	-.00009	.10477
-.513	298.950	400.34000	-.17053	-10.51800	-.00546	-.20366	-.05326	.00432	.00263	.00038	.09771
-.478	398.690	400.26000	-.26332	-10.47800	-.00168	-.21162	-.03408	.00548	.00187	.00028	.09890
-.474	499.530	400.21000	-.03029	-10.47300	.00278	-.22237	-.01494	.00786	.00024	.00016	.10853
-.471	598.550	400.24000	-.39381	-10.47000	-.00261	-.23050	.00333	.00918	-.00076	.00010	.11599
-.508	793.790	400.27000	-.06194	-10.50700	-.00003	-.19384	.00018	.00793	-.00074	.00021	.11883
-.548	879.820	400.22000	-.12970	-10.54700	-.00289	-.15234	-.02391	.00493	.00070	-.00004	.09971
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC:) W/ET SEPARATING (RVK008) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMGLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2673/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-19.988	625.010	599.99000	.08014	.00235	.17652	-.02751	.00253	.00035	.00055	.00921	.23504
-20.049	700.640	600.27000	.00930	.00122	.15334	-.02138	.00181	.00073	-.00010	.01210	.23525
-20.077	801.370	600.55000	.04497	-.00273	.11852	-.01297	.00066	.00062	.00011	.01737	.23516
-20.073	1001.100	600.41000	.10005	-.00005	.07050	-.00779	.00043	.00040	.00026	.02008	.23476
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2677/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.000	475.090	600.07000	.01564	-.00023	.20115	-.02520	.00177	.00048	.00069	.01300	.23562
-15.006	500.230	600.14000	.21372	.00690	.18015	-.02484	.00143	.00052	.00045	.01174	.23550
-15.012	550.160	600.05000	-.97546	-.01293	.15278	-.02170	.00191	.00034	.00025	.01072	.23560
-15.036	600.430	600.28000	-.12573	-.00002	.14008	-.01624	.00103	.00054	.00065	.01291	.23542
-15.042	700.630	600.26000	-.02077	-.00334	.09322	-.01004	.00034	.00042	.00037	.01700	.23545
-15.014	799.510	600.15000	.12240	.00468	.07613	-.00741	.00015	.00040	.00024	.01830	.23564
-15.069	1000.600	600.40000	.10496	.00187	.07591	-.00746	.00032	.00042	.00024	.01832	.23402
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2681/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.027	325.320	600.19000	-.08838	.00223	.22093	-.01930	.00032	.00051	.00031	.01851	.23736
-10.004	350.140	600.14000	.44940	.00798	.20186	-.02077	.00104	.00049	.00023	.01668	.23704
-10.006	400.040	600.05000	.48754	.01067	.17056	-.02195	.00059	.00049	.00040	.01341	.23730
-10.014	449.750	600.22000	.08941	.00366	.14394	-.01977	.00050	.00038	.00058	.01159	.23761
-10.035	500.180	600.30000	-.19485	-.00365	.13337	-.01454	.00040	.00050	.00044	.01310	.23785
-10.054	600.470	600.33000	-.22472	-.00176	.08913	-.00844	.00019	.00039	.00027	.01683	.23687
-10.060	700.500	600.40000	-.09486	-.00168	.07297	-.00726	.00009	.00041	.00021	.01751	.23702
-10.008	799.430	599.74000	.04632	.00231	.07949	-.00723	.00020	.00040	.00022	.01759	.23690
-10.024	999.850	599.69000	.19330	.00245	.07370	-.00729	.00014	.00041	.00022	.01760	.23709
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER((4RC1) W/ET SEPARATING (RVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
DREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2685/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-5.016	174.820	600.17000	-.14676	.00045	.20486	-.00192	.00166	.00019	.00041	.01658	.23453
-5.034	200.330	600.16000	-.02126	.00206	.21497	-.00834	.00061	.00034	.00077	.02136	.23490
-5.019	250.040	600.23000	-.49935	-.00385	.19122	-.01579	.00045	.00050	.00046	.02050	.23462
-5.001	299.730	600.17000	.23396	.00579	.15999	-.02022	.00080	.00029	.00047	.01705	.23452
-5.026	400.320	600.24000	.41298	.00630	.11836	-.01472	.00022	.00042	.00026	.01537	.23458
-5.058	500.420	600.30000	-1.00860	-.01395	.08029	-.00931	.00025	.00036	.00023	.01919	.23488
-5.059	600.380	600.34000	.10280	-.00010	.07505	-.00756	.00035	.00036	.00022	.01957	.23470
-5.058	700.240	599.80000	.32229	.00497	.07483	-.00757	.00027	.00033	.00023	.01948	.23487
-5.031	800.110	599.80000	-.18351	-.00100	.07483	-.00755	.00044	.00036	.00022	.01933	.23483
-4.997	958.590	599.82000	.21134	.00305	.07486	-.00755	.00031	.00033	.00022	.01947	.23430
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2689/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.528	49.560	600.22000	.03538	.00626	.16594	.01212	.00112	-.00001	-.00006	.01483	.23669
-.539	99.924	600.25000	.07717	.00325	.17065	.00667	.00113	.00024	.00058	.01331	.23623
-.514	149.640	600.22000	-.32334	-.00306	.18305	-.00434	.00025	.00030	.00074	.02059	.23649
-.519	160.290	600.18000	-.32335	-.00217	.19025	-.00719	-.00034	.00039	.00079	.02146	.23653
-.533	259.930	600.24000	.58033	.01108	.11277	-.01509	-.00079	.00034	.00068	.01388	.23623
-.554	400.490	600.33000	.29395	.00576	.08936	-.00925	-.00034	.00035	.00028	.01821	.23669
-.552	500.370	600.24000	.02288	-.00022	.07559	-.00727	-.00030	.00036	.00020	.01899	.23646
-.577	600.840	600.25000	.14547	.00134	.07572	-.00730	-.00045	.00036	.00020	.01897	.23673
-.509	799.410	599.80000	.07974	.00334	.07537	-.00727	-.00041	.00035	.00019	.01903	.23658
-.462	878.730	599.84000	.51705	.01274	.07461	-.00732	-.00044	.00037	.00020	.01925	.23682
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OIRC1) W/ET SEPARATING (SVK008) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DSETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2673/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.988	625.010	-10.01300	-.00183	.00235	-.15171	-.01675	.05237	.00978	-.00057	.00059
-20.049	700.640	-10.00800	-.00216	.00122	-.17197	-.01062	.05527	.00907	-.00019	-.00006
-20.077	801.370	-10.00200	-.00191	-.00273	-.20157	-.00219	.06064	.00793	-.00031	.00015
-20.073	1001.100	-10.00000	-.00161	-.00005	-.25153	.00302	.06347	.00772	-.00053	.00030
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

RUN NO. 2677/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.000	475.090	-10.01000	-.00191	-.00023	-.13791	-.01416	.05732	.00922	-.00047	.00074
-15.006	500.230	-10.01000	-.00195	.00690	-.15197	-.01383	.05594	.00896	-.00042	.00050
-15.012	550.160	-10.00800	-.00172	-.01293	-.18130	-.01069	.05491	.00934	-.00061	.00030
-15.036	600.430	-10.00400	-.00197	-.00002	-.19479	-.00524	.05707	.00845	-.00030	.00070
-15.042	700.680	-10.00100	-.00184	-.00354	-.23139	.00095	.06113	.00776	-.00053	.00042
-15.014	799.510	-10.00000	-.00158	.00458	-.25795	.00356	.06235	.00756	-.00055	.00028
-15.069	1000.600	-9.99000	-.00161	.00187	-.22819	.00352	.06238	.00772	-.00052	.00029
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

RUN NO. 2681/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.027	325.320	-10.00300	-.00165	.00223	-.11118	-.00846	.06324	.00834	-.00044	.00036
-10.004	350.140	-10.00500	-.00185	.00783	-.13784	-.00980	.06148	.00857	-.00047	.00028
-10.005	400.040	-10.00200	-.00183	.01067	-.16112	-.01079	.06121	.00911	-.00047	.00044
-10.014	449.750	-10.00700	-.00172	.00775	-.15131	-.00800	.06339	.00803	-.00058	.00062
-10.036	500.180	-10.00300	-.00189	-.00305	-.20113	-.00339	.05788	.00793	-.00036	.00048
-10.054	600.470	-10.00000	-.00159	-.00176	-.25837	.00271	.06155	.00771	-.00056	.00032
-10.060	700.500	-9.99000	-.00159	-.00168	-.25542	.00389	.06225	.00761	-.00055	.00026
-10.008	799.430	-9.99000	-.00159	.00231	-.25572	.00392	.06233	.00772	-.00055	.00026
-10.024	999.650	-9.99000	-.00160	.00245	-.25926	.00386	.06231	.00765	-.00054	.00026
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (SVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2685/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.016	174.820	-9.99340	-.00129	.00045	-.12771	.00900	.06044	.00903	-.00075	.00045
-5.034	200.330	-9.99360	-.00152	.00206	-.11713	.00257	.06516	.00797	-.00059	.00081
-5.019	250.040	-10.00200	-.00179	-.00386	-.14086	-.00487	.06430	.00781	-.00044	.00051
-5.001	293.730	-10.00710	-.00164	.00379	-.17834	-.00330	.06097	.00816	-.00065	.00051
-5.026	400.320	-10.00440	-.00170	.00630	-.21336	-.00390	.05916	.00759	-.00051	.00030
-5.059	500.420	-9.99950	-.00155	-.01335	-.23156	.00259	.06295	.00760	-.00059	.00027
-5.059	600.300	-9.99370	-.00155	-.00010	-.25700	.00335	.06336	.00771	-.00058	.00026
-5.058	700.240	-9.99330	-.00153	.00497	-.25729	.00335	.06328	.00763	-.00060	.00027
-5.031	800.110	-9.99370	-.00155	-.00100	-.25714	.00336	.06311	.00780	-.00059	.00027
-4.987	933.590	-9.99330	-.00153	.00305	-.25708	.00335	.06325	.00767	-.00060	.00027
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2689/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.528	49.560	-9.97737	-.00089	.00626	-.16724	.02310	.05890	.00952	-.00095	-.00001
-.539	99.924	-9.98195	-.00123	.00325	-.16391	.01786	.05743	.00955	-.00071	.00063
-.514	149.840	-9.98176	-.00143	-.00306	-.14850	.00355	.06473	.00767	-.00064	.00078
-.519	150.220	-9.98335	-.00154	-.00217	-.14432	.00390	.06557	.00707	-.00056	.00084
-.533	299.980	-10.00437	-.00160	.01109	-.22101	-.00412	.05790	.00660	-.00060	.00073
-.554	400.490	-10.00008	-.00155	.00375	-.24439	.00172	.06263	.00706	-.00059	.00033
-.552	500.370	-9.99135	-.00154	-.00022	-.23224	.00370	.06303	.00710	-.00058	.00024
-.577	600.640	-9.99293	-.00154	.00134	-.25812	.00337	.06300	.00694	-.00058	.00024
-.509	799.410	-9.99321	-.00152	.00334	-.25837	.00370	.06305	.00698	-.00059	.00024
-.462	878.730	-9.99385	-.00155	.01274	-.25832	.00363	.06320	.00695	-.00057	.00024
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04 0C1) W/ET SEPARATING (TVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2673/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-19.998	625.010	599.99000	.08014	.09510	.05197	133.15000	.00000	.00000	648.25000	.00000	.00000
-20.049	700.640	600.27000	.00930	.03886	-.03541	133.25000	.00000	.00000	648.40000	.00000	.00000
-20.077	801.370	600.55000	.04497	.04495	-.04568	134.29000	.00000	.00000	649.95000	.00000	.00000
-20.073	1001.100	600.41000	.10005	.05229	-.05791	135.54000	.00000	.00000	651.82000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2677/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.000	475.090	600.07000	.01564	.01370	-.09955	144.84000	.00000	.00000	665.74000	.00000	.00000
-15.006	500.230	600.14000	.21372	.03468	-.02084	143.60000	.00000	.00000	663.88000	.00000	.00000
-15.012	550.160	600.05000	-.97546	.02840	.01851	143.55000	.00000	.00000	663.82000	.00000	.00000
-15.036	600.430	600.23000	-.12573	.02107	-.00295	143.27000	.00000	.00000	663.40000	.00000	.00000
-15.042	700.680	601.26000	-.02077	.02490	-.00401	142.92000	.00000	.00000	662.87000	.00000	.00000
-15.014	799.510	600.15000	.12240	.02361	-.01183	142.24000	.00000	.00000	661.85000	.00000	.00000
-15.059	1000.600	600.40000	.10496	.03334	-.02287	142.25000	.00000	.00000	661.85000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2681/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.027	325.320	600.19000	-.08958	.00006	-.11282	149.69000	.00000	.00000	671.79000	.00000	.00000
-10.004	350.140	600.14000	.44940	-.01293	-.11789	149.55000	.00000	.00000	672.95000	.00000	.00000
-10.006	400.040	600.06000	.48754	.00346	-.03787	149.64000	.00000	.00000	672.92000	.00000	.00000
-10.014	449.750	600.22000	.09341	.02135	.03549	149.72000	.00000	.00000	673.05000	.00000	.00000
-10.035	500.180	600.38000	-.19483	.01229	.01515	149.40000	.00000	.00000	672.53000	.00000	.00000
-10.054	600.470	600.33000	-.22472	.01284	.01137	148.87000	.00000	.00000	671.78000	.00000	.00000
-10.060	700.500	600.40000	-.08426	.01418	.00542	149.12000	.00000	.00000	672.15000	.00000	.00000
-10.008	799.430	599.74000	.04982	.01559	.00440	149.02000	.00000	.00000	672.00000	.00000	.00000
-10.024	993.650	599.69000	.16390	.02053	-.00390	148.68000	.00000	.00000	671.49000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (TVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.8000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2663/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.016	174.820	600.17000	-.14576	.00495	-.04407	440.23000	.00000	.00000	658.84000	.00000	.00000
-5.034	200.330	600.18000	-.08126	-.01333	-.08913	439.60000	.00000	.00000	657.90000	.00000	.00000
-5.019	250.040	600.23000	-.46105	-.01848	-.03079	439.70000	.00000	.00000	658.04000	.00000	.00000
-5.001	288.730	600.17000	.23305	-.02482	-.04776	439.77000	.00000	.00000	658.15000	.00000	.00000
-5.019	400.370	600.20000	.41803	.00740	.02777	439.50000	.00000	.00000	657.74000	.00000	.00000
-5.058	800.420	600.62000	-1.00220	.00347	.01831	439.64000	.00000	.00000	657.42000	.00000	.00000
-5.022	600.330	600.21000	.10230	.00303	.01730	439.64000	.00000	.00000	657.81000	.00000	.00000
-5.058	700.240	600.57000	.32229	.00039	.01833	439.62000	.00000	.00000	657.93000	.00000	.00000
-5.031	800.110	599.82000	-.18331	.00784	.01522	439.44000	.00000	.00000	657.65000	.00000	.00000
-4.967	998.590	599.62000	.21134	.00931	.01201	438.39000	.00000	.00000	657.59000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2669/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.528	48.380	600.22000	.03539	.01622	.01018	442.55000	.00000	.00000	662.03000	.00000	.00000
-.539	99.924	600.23000	.07717	.01132	.01591	442.65000	.00000	.00000	662.76000	.00000	.00000
-.514	149.840	600.22000	-.32334	-.00505	.00025	442.92000	.00000	.00000	662.95000	.00000	.00000
-.519	160.290	600.18000	-.33336	-.00073	.00406	442.73000	.00000	.00000	662.59000	.00000	.00000
-.533	299.990	600.21000	-.01733	.00739	.03047	441.83000	.00000	.00000	661.24000	.00000	.00000
-.524	199.490	600.37000	.25736	.00421	.03005	441.78000	.00000	.00000	661.17000	.00000	.00000
-.525	500.370	600.34000	.08238	.00305	.02348	442.03000	.00000	.00000	661.54000	.00000	.00000
-.527	600.940	600.62000	.14547	.00232	.02203	441.91000	.00000	.00000	661.36000	.00000	.00000
-.509	799.410	599.82000	.07974	.00409	.02235	441.77000	.00000	.00000	661.15000	.00000	.00000
-.492	878.730	599.84000	.51705	.00469	.02135	441.11000	.00000	.00000	660.16000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORE TER(O4R:1) W/ET SEPARATING (UVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2673/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-19.938	625.010	977.74000	977.74000	74.00000	977.7400(	980.03999	76.00000	72.00000	1.00850	99.64200
-20.049	700.640	977.93000	977.93000	74.00000	977.9300(	980.03999	76.00000	72.00000	-2.55660	99.64200
-20.077	801.370	978.87000	978.87000	74.00000	978.8700(	980.03999	76.00000	72.00000	1.50970	99.64200
-20.073	1001.100	980.24000	980.24000	74.00000	980.2400(	980.03999	76.00000	72.00000	5.49590	99.64200
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2677/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.000	475.090	978.09000	978.09000	72.00000	978.0900(	977.55000	75.00000	72.00000	4.92360	99.51600
-15.006	500.230	977.80000	977.80000	72.00000	977.8000(	977.55000	75.00000	72.00000	-1.97170	99.51600
-15.012	550.160	977.71000	977.71000	72.00000	977.7100(	977.55000	75.00000	72.00000	-6.96540	99.51600
-15.036	600.430	977.53000	977.53000	72.00000	977.5300(	977.55000	75.00000	72.00000	-7.05730	99.51600
-15.042	700.680	977.30000	977.30000	72.00000	977.3000(	977.55000	75.00000	72.00000	-4.95160	99.51600
-15.014	799.510	976.76000	976.76000	72.00000	976.7600(	977.55000	75.00000	72.00000	-3.72180	99.51600
-15.069	1000.600	977.76000	977.76000	72.00000	977.7600(	977.55000	75.00000	72.00000	-.91916	99.51600
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2681/ 0 RN/L = .85 GRAD.ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.027	325.320	983.01000	983.01000	71.00000	983.0100(	981.39000	74.00000	70.00000	8.19060	99.51600
-10.004	350.140	982.71000	982.71000	71.00000	982.7100(	981.39000	74.00000	70.00000	4.77900	99.51600
-10.006	400.040	982.67000	982.67000	71.00000	982.6700(	981.39000	74.00000	70.00000	-2.11710	99.51600
-10.014	449.750	982.65000	982.65000	71.00000	982.6500(	981.39000	74.00000	70.00000	-7.29940	99.51600
-10.035	500.180	982.64000	982.64000	71.00000	982.6400(	981.39000	74.00000	70.00000	-7.91870	99.51600
-10.054	600.470	981.93000	981.93000	71.00000	981.9300(	981.39000	74.00000	70.00000	-6.57650	99.51600
-10.060	700.500	982.04000	982.04000	71.00000	982.0400(	981.39000	74.00000	70.00000	-5.57080	99.51600
-10.008	799.430	981.82000	981.82000	71.00000	981.8200(	981.39000	74.00000	70.00000	-4.37330	99.51600
-10.024	999.650	981.59000	981.59000	71.00000	981.5900(	981.39000	74.00000	70.00000	-2.21360	99.51600
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK008) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2685/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.016	174.820	978.15000	978.15000	79.00000	978.15000	979.99999	65.00000	70.00000	3.00260	99.51600
-5.034	200.330	978.22000	978.22000	79.00000	978.22000	979.99999	65.00000	70.00000	3.67530	99.51600
-5.019	250.040	978.43000	978.43000	79.00000	978.43000	979.99999	65.00000	70.00000	.94074	99.51600
-5.001	299.730	978.59000	978.59000	79.00000	978.59000	979.99999	65.00000	70.00000	-4.91530	99.51600
-5.026	400.320	978.47000	978.47000	79.00000	978.47000	979.99999	65.00000	70.00000	-8.03220	99.51600
-5.058	500.420	978.47000	978.47000	79.00000	978.47000	979.99999	65.00000	70.00000	-7.36760	99.51600
-5.059	600.330	979.05000	979.05000	79.00000	979.05000	979.99999	65.00000	70.00000	-6.93370	99.51600
-5.058	700.240	979.24000	979.24000	79.00000	979.24000	979.99999	65.00000	70.00000	-6.55350	99.51600
-5.031	800.110	979.79000	979.79000	79.00000	979.79000	979.99999	65.00000	70.00000	-6.16520	99.51600
-4.967	998.590	980.17000	980.17000	79.00000	980.17000	979.99999	65.00000	70.00000	-5.57940	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2689/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.528	49.560	979.97000	979.97000	72.00000	979.97000	980.39999	74.00000	70.00000	-6.97630	99.64200
-.539	99.924	980.07000	980.07000	72.00000	980.07000	980.39999	74.00000	70.00000	-6.51720	99.64200
-.514	149.840	980.33000	980.33000	72.00000	980.33000	980.39999	74.00000	70.00000	-6.66590	99.64200
-.519	160.290	980.30000	980.30000	72.00000	980.30000	980.39999	74.00000	70.00000	-7.35120	99.64200
-.533	299.980	980.25000	980.25000	72.00000	980.25000	980.39999	74.00000	70.00000	-8.29200	99.64200
-.554	400.490	980.15000	980.15000	72.00000	980.15000	980.39999	74.00000	70.00000	-8.19620	99.64200
-.552	500.370	980.21000	980.21000	72.00000	980.21000	980.39999	74.00000	70.00000	-7.92200	99.64200
-.577	600.840	980.	980.43000	72.00000	980.43000	980.39999	74.00000	70.00000	-7.68070	99.64200
-.509	799.410	980.	980.61000	72.00000	980.61000	980.39999	74.00000	70.00000	-7.28190	99.64200
-.462	878.730	980.60000	980.60000	72.00000	980.60000	980.39999	74.00000	70.00000	-7.01930	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK008) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -10.000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2673/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.988	625.010	599.99000	.08014	-30.00100	.00051	-.59559	-.10216	.02065	.00376	.00149	.12194
-20.049	700.640	600.27000	.00930	-30.05700	-.00095	-.59187	-.10600	.02228	.00324	.00133	.12156
-20.077	801.370	600.53000	.04497	-30.07900	-.00464	-.63980	-.07713	.02406	.00238	.00175	.13785
-20.073	1001.100	600.41000	.10005	-30.07300	-.00165	-.69126	-.03500	.02655	-.00054	.00157	.14231
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2677/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.000	475.090	600.07000	.01564	-25.01000	-.00214	-.50514	-.08447	.01194	.00349	.00085	.12758
-15.006	500.230	600.14000	.21372	-25.01600	.00496	-.49472	-.08977	.01255	.00297	.00094	.12394
-15.012	550.160	600.05000	-.97546	-25.02000	-.01465	-.48129	-.09484	.01607	.00351	.00106	.11932
-15.036	600.430	600.23000	-.12573	-25.04000	-.00193	-.47542	-.09277	.01640	.00350	.00096	.11866
-15.042	700.630	600.23000	-.02077	-25.04300	-.00518	-.49911	-.07659	.01556	.00317	.00104	.11572
-15.014	799.510	600.15000	.12240	-25.01400	.00300	-.51764	-.05033	.01938	.00035	.00108	.12249
-15.069	1000.600	600.40000	.10496	-25.05300	.00026	-.55783	.00339	.02118	-.00242	.00095	.14973
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2681/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.027	325.320	600.19000	-.08958	-20.03000	.00039	-.40012	-.07913	.00260	.00260	.00065	.12032
-10.004	350.140	600.14000	.44340	-20.00200	.00314	-.40752	-.07282	.00134	.00302	.00058	.12353
-10.005	400.040	600.03000	.49734	-20.01400	.00281	-.38341	-.07821	.00185	.00303	.00058	.11811
-10.014	449.750	600.23000	.06341	-20.02100	.00194	-.39577	-.02329	.00591	.00365	.00066	.11560
-10.036	500.180	600.30000	-.19485	-20.03900	-.00553	-.38128	-.08219	.01138	.00359	.00073	.11529
-10.054	600.470	600.33000	-.22472	-20.05400	-.00335	-.38188	-.07152	.01477	.00205	.00072	.10702
-10.060	700.500	600.40000	-.09486	-20.05900	-.00327	-.40110	-.05013	.01368	.00092	.00069	.11532
-10.008	799.430	599.74000	.04982	-20.00700	.00073	-.42750	-.02416	.01490	-.00019	.00066	.12420
-10.024	999.650	599.69000	.18380	-20.02300	.00065	-.46422	.02415	.01520	-.00250	.00052	.15520
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (1A22).ET SEPARATING FROM ORB (04RC1) (AVK008) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-10.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2685/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.016	174.820	600.17000	-.14675	-15.00400	-.00084	-.29446	-.07714	.00537	.00235	.00029	.11767
-5.034	200.330	600.18000	-.02126	-15.02900	.00054	-.30567	-.07379	.00558	.00252	.00026	.11382
-5.019	250.040	600.23000	-.49935	-15.02100	-.00505	-.32343	-.06174	.00172	.00321	.00038	.11710
-5.001	299.730	600.17000	.23355	-15.00800	.00515	-.31249	-.05370	-.00183	.00333	.00017	.11169
-5.026	400.320	600.24000	.41299	-15.03000	.00459	-.28306	-.07117	.00374	.00373	.00043	.10776
-5.058	500.420	600.30000	-1.09260	-15.05800	-.01542	-.28218	-.08213	.00694	.00289	.00057	.10229
-5.059	600.380	600.34000	.10260	-15.05900	-.00166	-.29737	-.04022	.00722	.00180	.00040	.10672
-5.058	700.240	599.88000	.32229	-15.05800	.00334	-.31476	-.01832	.01026	-.00002	.00034	.11712
-5.031	800.110	599.88000	-.18351	-15.03100	-.00255	-.32724	.00227	.01060	-.00095	.00023	.12681
-4.987	958.580	599.82000	.21134	-14.93500	.00752	-.29050	.00283	.00958	-.00116	.00034	.13433
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2689/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.528	49.560	600.22000	.03538	-10.50500	.00437	-.19137	-.07448	.00836	.00083	.00014	.12591
-.539	99.924	600.23000	.07717	-10.52100	.00202	-.22244	-.06510	.00545	.00224	-.00001	.12073
-.514	149.840	600.28000	-.32334	-10.50300	-.00449	-.24907	-.05537	.00692	.00204	.00007	.11540
-.519	160.290	600.18000	-.32356	-10.51300	-.00371	-.25585	-.05277	.00805	.00164	.00013	.11517
-.533	259.980	600.24000	.00033	-10.53700	.00948	-.21174	-.06235	.00555	.00202	.00013	.10029
-.554	400.490	600.33000	.28003	-10.56000	.00520	-.21133	-.05346	.00591	.00289	.00037	.10134
-.552	500.370	600.24000	.02283	-10.56100	-.00176	-.21426	-.03497	.00505	.00210	.00030	.09906
-.577	600.840	600.25000	.14547	-10.57600	-.00020	-.22518	-.01429	.00715	.00034	.00011	.10720
-.509	799.410	599.80000	.07974	-10.50800	.00182	-.22570	.01078	.00874	-.00103	.00009	.12398
-.462	878.730	599.84000	.51705	-10.46100	.01119	-.20346	.00450	.00849	-.00104	.00020	.12305
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OMRCI) W/ET SEPARATING (RVK009) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
ZSWEEP =	1.000	GAS =	1.000

RUN NO. 2352/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.002	316.970	-.05370	.46069	.00924	.41828	-.00027	-.01319	.00015	.00239	.00665	.23194
-10.028	342.180	.05926	-.03418	-.00302	.37824	-.00416	-.01400	.00021	.00176	.00747	.23157
-10.004	391.740	-.03971	-.24672	.00033	.33221	-.01069	-.01235	-.00008	.00089	.00362	.23169
-9.972	441.360	-.10998	.10534	.00395	.30994	-.02039	-.01233	-.00019	.00085	.00269	.23190
-9.976	491.140	-.03549	-.17452	.00045	.26036	-.02015	-.01179	-.00007	.00023	-.00382	.23167
-9.955	590.740	-.02540	.31987	.00775	.21426	-.01116	-.01319	.00008	.00021	-.00472	.23200
-9.993	691.020	-.10600	.06923	.00350	.17511	-.00239	-.01421	.00018	.00023	-.00337	.23167
-10.067	792.300	.21638	.18412	-.00127	.16063	-.00100	-.01394	-.00009	.00078	.00057	.23190
-10.036	931.800	.14105	.26508	.00636	.16127	-.00069	-.01402	-.00009	.00078	.00054	.23193
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2366/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
.003	11.422	.18573	.36598	.00790	.18695	.00770	-.01441	.00042	.00063	.02277	.23344
-.018	42.276	.03620	-.12005	-.00074	.20164	.01304	-.01305	.00036	.00045	.02259	.23349
.009	91.583	.07284	.00386	.00463	.22936	.01583	-.01031	.00019	.00078	.01359	.23379
.015	141.290	.03429	.27578	.00334	.24168	.01186	-.01478	.00030	.00062	.00999	.23421
.025	190.940	.05773	.25765	.00330	.21645	.00758	-.01434	.00048	-.00015	.00401	.23387
.039	290.680	.11424	.10671	.00271	.19386	.00289	-.01354	.00031	.00005	.00332	.23402
.033	390.710	.15277	-.11761	.00291	.18357	-.00226	-.01377	.00027	.00015	.00176	.23348
-.002	491.220	.22080	.10209	.00444	.16512	-.00073	-.01395	.00028	.00024	.00010	.23354
-.044	591.630	.24875	-.04974	-.00155	.16155	-.00057	-.01389	.00003	.00077	.00353	.23371
.001	791.280	.14324	.53397	.01039	.16073	-.00042	-.01365	.00004	.00076	.00340	.23395
-.000	931.280	.21530	-.55569	-.00345	.16114	-.00043	-.01393	.00004	.00077	.00332	.23376
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2368/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
10.041	-135.040	1.59700	.37140	.00385	.14310	-.00785	-.01399	-.00025	.00001	-.00179	.23153
9.977	-109.220	.02057	.02095	.00183	.14237	-.00785	-.01332	-.00031	.00007	.00366	.23147
9.947	-57.212	-.04322	-.15559	-.00133	.16116	.00350	-.01361	.00032	.00005	.01845	.23173
10.011	6.259	.15417	.22248	.00282	.15373	.00837	-.01104	.00026	.00030	.01136	.23183
10.022	90.674	.26119	-1.46020	-.01785	.19006	.01125	-.01425	.00022	.00100	.00585	.23195
10.019	190.400	.23907	.64203	.01277	.19552	.00195	-.01377	-.00002	.00078	.00681	.23155
9.987	251.150	.17395	.11625	.00465	.18991	-.00048	-.01368	-.00005	.00072	.00380	.23225
	GRADIENT	.02448	.03532	.00083	.02996	.00141	-.00175	.00004	.00013	.00180	.03680

V41B-D9A (IA22),ORBITER(O-RC1) W/ET SEPARATING (SVK009) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
ZSWEEP =	1.000	GAS =	1.000

RUN NO. 2352/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.002	316.970	-4.97700	-.00088	.00924	.08184	.01069	.05063	-.00580	-.00079	.00244
-10.028	342.180	-4.98200	-.00099	-.00302	.04171	.00683	.05159	-.00658	-.00074	.00181
-10.004	391.740	-4.99100	-.00080	.00033	-.00210	.00030	.04771	-.00494	-.00103	.00093
-9.972	441.360	-5.00030	-.00082	.00395	-.02457	-.00940	.04681	-.00492	-.00114	.00090
-9.976	491.140	-5.00220	-.00085	.00045	-.07434	-.00915	.04032	-.00437	-.00102	.00027
-9.956	590.740	-4.99200	-.00100	.00775	-.12078	-.00015	.03947	-.00576	-.00036	.00025
-9.983	691.020	-4.98020	-.00097	.00550	-.15982	.00353	.04091	-.00679	-.00077	.00027
-10.067	792.300	-4.98000	-.00087	-.00127	-.17433	.01002	.04477	-.00651	-.00104	.00082
-10.036	991.800	-4.98000	-.00057	.00536	-.17446	.01005	.04482	-.00658	-.00104	.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2366/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.003	11.422	-4.98085	-.00110	.00790	-.14800	.01870	.06594	-.00699	-.00053	.00067
-.018	42.276	-4.97516	-.00153	-.00074	-.13334	.02405	.06677	-.00553	-.00009	.00050
.008	91.583	-4.97134	-.00090	.00453	-.10859	.02085	.05777	-.00339	-.00075	.00083
.015	141.280	-4.97433	-.00090	.00534	-.09188	.02286	.05417	-.00736	-.00064	.00066
.025	190.940	-4.97842	-.00117	.00530	-.11939	.01659	.04821	-.00691	-.00046	-.00011
.039	290.690	-4.98426	-.00105	.00271	-.13122	.01395	.04730	-.00825	-.00053	.00010
.033	390.710	-4.97870	-.00108	.00391	-.14075	.00870	.04574	-.00638	-.00057	.00020
-.002	491.220	-4.98006	-.00108	.00444	-.16198	.01025	.04416	-.00655	-.00066	.00028
-.044	591.880	-4.98315	-.00081	-.00165	-.17272	.01042	.04762	-.00548	-.00091	.00082
.001	791.290	-4.98314	-.00082	.01039	-.17361	.01057	.04749	-.00644	-.00090	.00081
-.000	931.280	-4.98911	-.00081	-.00646	-.17336	.01056	.04743	-.00652	-.00090	.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2368/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
10.041	-135.040	-4.93700	-.00060	.00855	-.19457	.00323	.04274	-.00650	-.00120	.00006
9.977	-108.280	-4.93080	-.00055	.00185	-.19238	.00324	.05320	-.00534	-.00126	.00011
9.947	-57.212	-4.93570	-.00107	-.00083	-.17842	.01459	.05297	-.00613	-.00063	.00010
10.011	6.299	-4.97910	-.00097	.00522	-.14871	.01996	.05596	-.00357	-.00069	.00085
10.022	90.674	-4.97770	-.00084	-.01785	-.14735	.02233	.05035	-.00678	-.00073	.00105
10.019	190.400	-4.93570	-.00071	.01277	-.14188	.01303	.05131	-.00629	-.00097	.00083
9.987	251.150	-4.93790	-.00072	.00465	-.14728	.01060	.04827	-.00621	-.00100	.00077
	GRADIENT	-.79046	-.00015	.00083	-.02351	.00317	.00887	-.00057	-.00011	.00013

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK009) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
ZSHCEP =	1.000	GAS =	1.000

RUN NO. 2352/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.002	316.970	-.05370	.46068			+41.37000	.00000	.00000	660.55000	.00000	.00000
-10.028	342.160	.05030	-.03416			+42.81000	.00000	.00000	662.70000	.00000	.00000
-10.004	391.740	-.02971	-.24672			+42.55000	.00000	.00000	662.28000	.00000	.00000
-9.972	441.350	-.10018	.10534			+42.75000	.00000	.00000	662.67000	.00000	.00000
-9.976	491.140	-.03949	-.17482			+43.04000	.00000	.00000	663.04000	.00000	.00000
-9.955	590.740	-.02540	.31937			+43.50000	.00000	.00000	663.74000	.00000	.00000
-9.933	691.020	-.10000	.00023			+43.47000	.00000	.00000	663.69000	.00000	.00000
-10.007	792.300	.21638	.12412			+43.64000	.00000	.00000	663.95000	.00000	.00000
-10.036	991.800	.19103	.20003			+44.41000	.00000	.00000	665.10000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2365/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.003	11.422	.18573	.35583			+43.32000	.00000	.00000	663.55000	.00000	.00000
-.018	42.276	.03520	-.12003			+43.42000	.00000	.00000	663.61000	.00000	.00000
.008	91.583	.07224	.02226			+43.33000	.00000	.00000	663.55000	.00000	.00000
.015	141.230	.03459	.27572			+43.39000	.00000	.00000	663.57000	.00000	.00000
.025	190.940	.03773	.23708			+43.31000	.00000	.00000	663.90000	.00000	.00000
.039	280.680	.11434	.10671			+41.42000	.00000	.00000	660.62000	.00000	.00000
.033	390.710	.15277	-.11781			+41.35000	.00000	.00000	660.52000	.00000	.00000
-.002	491.220	.22060	.10283			+42.23000	.00000	.00000	661.83000	.00000	.00000
-.044	591.630	.24975	-.04974			+42.48000	.00000	.00000	662.21000	.00000	.00000
.001	791.230	.14324	.63337			+42.53000	.00000	.00000	662.32000	.00000	.00000
-.000	931.280	.21930	-.53333			+42.75000	.00000	.00000	662.67000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2358/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
10.041	-135.040	1.59700	.37140			+46.57000	.00000	.00000	669.93000	.00000	.00000
9.977	-108.280	.03057	.02003			+47.00000	.00000	.00000	669.09000	.00000	.00000
9.947	-57.212	-.04022	-.13333			+46.83000	.00000	.00000	668.74000	.00000	.00000
10.011	6.259	.15417	.22348			+46.83000	.00000	.00000	668.47000	.00000	.00000
10.022	90.674	.25119	-1.43020			+46.63000	.00000	.00000	668.41000	.00000	.00000
10.019	190.400	.22007	.64803			+46.63000	.00000	.00000	663.41000	.00000	.00000
9.987	251.150	.17336	.11625			+46.35000	.00000	.00000	667.92000	.00000	.00000
	GRADIENT	.02448	.03532			70.90967	.00000	.00000	106.12319	.00000	.00000

V41B-09A (IA22),ORBITER(04:C1) W/ET SEPARATING (UVK009) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMELDR = .000 RCS = 1.000
ZSWEEP = 1.000 GAS = 1.000

RUN NO. 2352/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.002	316.970	973.86000	973.86000	87.00000	973.860!0	973.62000	86.00000	74.00000	8.67860	99.76800
-10.028	342.180	973.61000	973.61000	87.00000	973.610!0	973.62000	86.00000	74.00000	21.63400	99.76800
-10.004	391.740	973.48000	973.48000	87.00000	973.480!0	973.62000	86.00000	74.00000	17.71600	99.76800
-9.972	441.360	973.07000	973.07000	87.00000	973.070!0	973.62000	86.00000	74.00000	17.07000	99.76800
-9.976	491.140	973.13000	973.13000	87.00000	973.130!0	973.62000	86.00000	74.00000	15.75500	99.76800
-9.955	590.740	973.17000	973.17000	87.00000	973.170!0	973.62000	86.00000	74.00000	11.33700	99.76800
-9.993	691.020	973.10000	973.10000	87.00000	973.100!0	973.62000	86.00000	74.00000	4.00910	99.76800
-10.067	792.300	972.93000	972.93000	87.00000	972.930!0	973.62000	86.00000	74.00000	-.77864	99.76800
-10.036	991.800	973.20000	973.20000	87.00000	973.200!0	973.62000	86.00000	74.00000	-4.14380	99.76800
	GRADIENT	.00000	.00000	.00000	.000!0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2366/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.003	11.422	976.93000	976.83000	82.00000	976.830!0	976.60939	84.00000	75.00000	-12.30200	99.76800
-.018	42.276	976.91000	976.91000	82.00000	976.910!0	976.60939	84.00000	75.00000	-11.44500	99.76800
.008	91.583	976.83000	976.83000	82.00000	976.830!0	976.60939	84.00000	75.00000	-9.87780	99.76800
.015	141.290	977.34000	977.34000	82.00000	977.340!0	976.60939	84.00000	75.00000	-9.94350	99.76800
.025	190.940	977.33000	977.33000	82.00000	977.330!0	976.60939	84.00000	75.00000	-10.65700	99.76800
.035	290.680	977.30000	977.30000	82.00000	977.300!0	976.60939	84.00000	75.00000	-11.69700	99.76800
.033	390.710	977.72000	977.72000	82.00000	977.720!0	976.60939	84.00000	75.00000	-12.18900	99.76800
-.002	491.220	977.76000	977.76000	82.00000	977.760!0	976.60939	84.00000	75.00000	-12.61800	99.76800
-.044	591.030	977.78000	977.78000	82.00000	977.780!0	976.60939	84.00000	75.00000	-12.63200	99.76800
.001	791.290	977.93000	977.93000	82.00000	977.930!0	976.60939	84.00000	75.00000	-12.83300	99.76800
-.000	931.280	978.46000	978.46000	82.00000	978.460!0	976.60999	84.00000	75.00000	-13.26500	99.76800
	GRADIENT	.00000	.00000	.00000	.000!0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2368/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
10.041	-135.040	977.33000	977.33000	80.00000	977.330!0	977.10939	68.00000	72.00000	-9.12840	99.76800
9.977	-108.220	977.07000	977.07000	80.00000	977.070!0	977.10939	68.00000	72.00000	-8.56930	99.76800
9.947	-57.212	977.05000	977.05000	80.00000	977.050!0	977.10939	68.00000	72.00000	-8.39060	99.76800
10.011	6.259	976.65000	976.65000	80.00000	976.650!0	977.10939	68.00000	72.00000	-10.08800	99.76800
10.022	90.674	976.57000	976.57000	80.00000	976.570!0	977.10939	68.00000	72.00000	-12.63500	99.76800
10.019	190.400	976.57000	976.57000	80.00000	976.570!0	977.10939	68.00000	72.00000	-13.98900	99.76800
9.987	251.150	976.45000	976.45000	80.00000	976.450!0	977.10999	68.00000	72.00000	-14.47700	99.76800
	GRADIENT	155.04642	155.04642	12.70043	155.048!2	155.12145	10.75336	11.43039	-1.59835	15.83870

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT
SCALE =	.0125		

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
ZSWEEP =	1.000	GAS =	1.000

RUN NO. 2352/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.002	316.970	-.05370	.45068	-14.97900	.00836	-.35621	-.00148	.00882	-.00232	.00100	.12330
-10.028	342.180	.05920	-.03418	-15.01000	-.00401	-.31532	-.02299	.00517	.00037	.00080	.10867
-10.004	391.740	-.03971	-.24672	-14.98500	-.00047	-.29361	-.03082	.00576	.00016	.00068	.10107
-9.972	441.360	-.10939	.10504	-14.97200	.00313	-.30463	-.01971	.00591	-.00029	.00073	.10655
-9.976	491.140	-.03949	-.17452	-14.97800	-.00051	-.31544	-.09814	.00807	-.00070	.00069	.11432
-9.955	590.740	-.02540	.31987	-14.95100	.00575	-.33590	.01756	.00776	-.00150	.00055	.13440
-9.983	691.020	-.10500	.03023	-14.97200	.00452	-.32983	.02845	.00912	-.00276	.00089	.14614
-10.067	792.300	.21638	.16412	-15.05700	-.00194	-.25499	-.01553	.00483	.00012	.00042	.11372
-10.035	991.600	.14105	.28383	-15.02600	.00469	-.21447	-.03841	.00385	.00039	.00028	.10567
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2365/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.003	11.422	.18573	.36598	-4.97780	.00681	-.09578	-.02732	-.00067	.00035	.00037	.06563
-.018	42.276	.03620	-.12695	-4.99350	-.00227	-.11809	-.02836	-.00265	.00135	.00046	.08778
.008	91.533	.07224	.02226	-4.99310	.00373	-.13035	-.02057	.00327	.00042	.00016	.08894
.015	141.290	.03429	.27578	-4.99030	.00494	-.13707	-.01376	.00276	.00033	.00021	.09111
.025	190.940	.05773	.25765	-4.99470	.00413	-.13235	-.00490	.00242	.00042	.00025	.09480
.039	290.630	.11434	.10371	-4.99310	.00165	-.14231	.01001	.00235	.00044	.00025	.10177
.033	390.710	.15277	-.11731	-4.99700	.00183	-.14245	.02007	.00425	-.00042	.00023	.11017
-.002	491.220	.22060	.10269	-4.99070	.00237	-.11447	.01390	.00465	-.00090	.00038	.10917
-.044	591.680	.24975	-.04974	-5.03290	-.00236	-.06068	-.01257	.00237	.00035	.00005	.08816
.001	791.290	.14324	.63397	-4.99030	.00958	-.06170	-.01479	.00228	.00050	-.00001	.09216
-.000	931.280	.21980	-.55289	-4.99980	-.00727	-.06207	-.01490	.00193	.00045	-.00000	.09415
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
10.041	-135.040	1.59700	.37140	5.04400	.00805	.06471	.00597	.00292	-.00031	-.00001	.08642
9.977	-108.280	.02057	.02096	4.99070	.00131	.05729	.00627	.00160	.00032	.00005	.08695
9.947	-57.212	-.04922	-.15558	4.99090	-.00190	.00655	.00314	.00184	.00054	.00018	.08842
10.011	6.299	.15417	.22248	5.03190	.00425	-.01201	.01611	.00312	.00017	.00005	.09218
10.022	90.674	.26119	-1.46020	5.04430	-.01870	-.02043	.03354	.00499	-.00040	.00010	.09905
10.019	190.400	.29307	.64203	5.03330	.01205	-.00757	.04219	.00379	-.00136	.00008	.10265
9.987	251.150	.17386	.11885	4.99080	.00393	.00249	.03718	.00349	-.00131	.00010	.10007
	GRADIENT	.02448	.03532	.79884	.00067	-.00191	.00256	.00049	.00003	.00001	.01463

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK010) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
ZSWEEP = 2.000 GAS = 1.000

RUN NO. 2353/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-9.958	316.930	-.04019	.51849	.01438	.4163[illegible]	-.00031	-.01322	.00017	.00231	.00680	.23231
-10.000	342.290	-.00833	.14923	.00346	.37441	-.00437	-.01397	.00022	.00165	.00766	.23190
-10.033	362.740	.157[illegible]	-.03935	.00148	.3307[illegible]	-.01090	-.01231	-.00009	.00088	.00363	.23196
-10.020	442.590	.07809	.35866	.00365	.3071[illegible]	-.02077	-.01235	-.00015	.00088	.00316	.23207
-10.049	492.590	.22228	-.04309	.00121	.2573[illegible]	-.02050	-.01165	-.00010	.00029	-.00308	.23234
-10.012	592.180	.23065	-.29132	-.00478	.2106[illegible]	-.01151	-.01282	.00008	.00026	-.00392	.23213
-9.932	690.910	.05791	.19309	.01086	.1710[illegible]	-.00273	-.01432	.00013	.00034	-.00201	.23196
-9.939	791.250	.01640	.34119	.00782	.1569[illegible]	-.00116	-.01375	-.00009	.00078	.00148	.23179
-10.000	921.420	.12333	.16782	.00444	.15721	-.00116	-.01333	-.00008	.00079	.00148	.23186
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2367/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
.021	6.963	.31777	.60005	.01214	.17992	.00731	-.01481	.00032	.00067	.02435	.23420
-.008	41.695	.22939	.23232	.00503	.1972[illegible]	.01236	-.01370	.00073	.00042	.02469	.23389
-.015	91.925	.12319	-.07934	.00074	.2250[illegible]	.01551	-.01351	.00021	.00065	.01563	.23396
-.022	142.230	.03029	-.03902	.00034	.23794	.01165	-.01508	.00019	.00060	.01175	.23429
-.035	192.420	.08546	-.23594	.00048	.2130[illegible]	.00728	-.01478	.00039	-.00016	.00537	.23435
-.028	222.320	.15747	.01257	.00049	.19351	.00330	-.01398	.00022	-.00011	.00328	.23381
.005	391 800	.13447	.32979	.00537	.1885[illegible]	-.00234	-.01421	.00017	.00014	.00199	.23450
.042	491.050	.14672	.21341	.00635	.1694[illegible]	-.00070	-.01469	.00020	.00020	.00012	.23456
009	591.410	.21233	.11034	.00324	.1652[illegible]	-.00055	-.01431	-.00004	.00075	.00355	.23435
.004	791.330	.18333	-.00223	.00226	.1636[illegible]	-.00038	-.01430	-.00004	.00075	.00374	.23453
-.072	933.830	-.46461	.10639	.00302	.1630[illegible]	-.00044	-.01422	-.00004	.00075	.00400	.23456
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2369/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
9.998	-133.820	.17721	-.06290	.00322	.14077	-.00766	-.01425	-.00038	-.00001	-.00205	.23217
10.027	-109.960	.35070	.53358	.01078	.13957	-.00787	-.01356	-.00035	.00011	.00877	.23217
9.973	-58.468	.11340	.62318	.01072	.1596[illegible]	.00349	-.01355	.00026	.00001	.01862	.23259
9.948	7.191	.04351	.87764	.01474	.1973[illegible]	.00397	-.01115	.0002	.00080	.01120	.23207
9.934	92.304	.05476	.18348	.00412	.1633[illegible]	.01123	-.01447	.00017	.00099	.00559	.23253
9.975	191.550	.20345	.71013	.01221	.1944[illegible]	.00153	-.01392	-.00005	.00076	.00654	.23205
10.051	249.870	1.76610	.00812	.00355	.16821	-.00036	-.01380	-.00008	.00071	.00365	.23214
	GRADIENT	.00605	.12205	.00205	.0261[illegible]	.00125	-.00155	.00003	.00011	.00156	.03227

V41B-09A (IA22),ORBITER(HRC1) W/ET SEPARATING (SVK010) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
ZSWEEP =	2.000	GAS =	1.000

RUN NO. 2353/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.968	316.930	-4.97700	-.00091	.01438	.03445	.01059	.05057	-.00586	-.00076	.00235
-10.000	342.290	-4.98300	-.00101	.00346	.01273	.00653	.05141	-.00662	-.00072	.00169
-10.033	392.740	-4.99100	-.00079	.00148	-.01044	-.00002	.04730	-.00497	-.00103	.00093
-10.020	442.590	-5.00100	-.00086	.00055	-.02339	-.00991	.04576	-.00502	-.00108	.00093
-10.049	492.590	-5.00200	-.00094	.00121	-.07295	-.00965	.04048	-.00434	-.00103	.00033
-10.012	592.180	-4.99700	-.00101	-.00478	-.13018	-.00864	.03972	-.00559	-.00085	.00031
-9.932	690.910	-4.99090	-.00092	.01096	-.15032	.00814	.04164	-.00599	-.00081	.00039
-9.969	791.250	-4.99080	-.00079	.00782	-.17414	.00972	.04514	-.00641	-.00103	.00082
-10.000	991.420	-4.99040	-.00068	.00444	-.17422	.00973	.04519	-.00649	-.00102	.00083
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2367/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.021	6.963	-4.99120	-.00100	.01214	-.13071	.01817	.06795	-.00748	-.00061	.00071
-.009	41.695	-4.97932	-.00139	.00303	-.13388	.02373	.06233	-.00637	-.00020	.00047
-.015	91.925	-4.97160	-.00083	.00074	-.11531	.02638	.05928	-.00317	-.00073	.00069
-.022	142.230	-4.97449	-.00078	.00094	-.03370	.02254	.05548	-.00773	-.00074	.00064
-.035	192.420	-4.97975	-.00106	.00048	-.12042	.01824	.04935	-.00739	-.00055	-.00012
-.028	292.320	-4.99086	-.00094	.00049	-.13710	.01456	.04768	-.00552	-.00073	-.00006
.005	391.800	-4.99137	-.00086	.00037	-.15059	.00831	.04572	-.00659	-.00079	.00019
.042	491.030	-4.99000	-.00097	.00085	-.13971	.01044	.04485	-.00718	-.00076	.00024
.009	591.410	-4.99015	-.00072	.00024	-.17390	.01059	.04327	-.00680	-.00100	.00079
.004	791.380	-4.99003	-.00072	.00025	-.17463	.01074	.04835	-.00690	-.00099	.00079
-.072	933.850	-4.98912	-.00072	.00302	-.17443	.01055	.04851	-.00674	-.00099	.00079
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2369/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
9.988	-133.820	-4.99030	-.00046	.00322	-.13539	.00339	.04228	-.00680	-.00133	.00004
10.027	-108.980	-4.99040	-.00051	.01070	-.13677	.00318	.05312	-.00610	-.00129	.00015
9.973	-58.483	-4.99070	-.00100	.01072	-.17754	.01435	.06301	-.00610	-.00069	.00006
9.948	7.191	-4.97950	-.00092	.01474	-.11683	.02603	.05558	-.00369	-.00074	.00085
9.954	92.304	-4.97740	-.00078	.00412	-.11791	.02235	.04996	-.00702	-.00078	.00104
9.975	191.550	-4.98550	-.00057	.01221	-.11247	.01305	.05097	-.00635	-.00100	.00081
10.061	248.870	-4.98750	-.00068	.00556	-.11792	.01071	.04812	-.00633	-.00103	.00075
	GRADIENT	-.69245	-.00013	.00205	-.02070	.00279	.00773	-.00051	-.00010	.00012

V41B-D9A (IA22),ORBITER(WRC1) W/ET SEPARATING (TVK010) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
ZSHEEP = 2.000 GAS = 1.000

RUN NO. 2353/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.968	316.930	-.04019	.51849	**********	**********	439.30000	.00000	.00000	657.46000	.00000	.00000
-10.000	342.290	-.00283	.14923	**********	**********	439.04000	.00000	.00000	657.05000	.00000	.00000
-10.033	392.740	.15711	-.03995	**********	**********	438.34000	.00000	.00000	656.01000	.00000	.00000
-10.020	442.590	.07009	.20085	**********	**********	437.53000	.00000	.00000	654.80000	.00000	.00000
-10.049	492.590	.22228	-.04309	**********	**********	437.23000	.00000	.00000	654.36000	.00000	.00000
-10.012	592.180	.23066	-.29132	**********	**********	437.95000	.00000	.00000	655.43000	.00000	.00000
-9.939	690.910	.05791	.19509	**********	**********	439.08000	.00000	.00000	655.60000	.00000	.00000
-9.989	791.250	.01640	.34119	**********	**********	439.22000	.00000	.00000	655.84000	.00000	.00000
-10.000	991.420	.12338	.16782	**********	**********	438.70000	.00000	.00000	656.56000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2367/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.021	6.963	.31777	.60005	**********	**********	437.65000	.00000	.00000	654.98000	.00000	.00000
-.008	41.695	.22939	.28282	**********	**********	437.93000	.00000	.00000	655.40000	.00000	.00000
-.015	91.925	.12318	-.07934	**********	**********	439.08000	.00000	.00000	655.62000	.00000	.00000
-.022	142.230	.03029	-.03802	**********	**********	438.99000	.00000	.00000	656.99000	.00000	.00000
-.035	192.420	.09346	-.23584	**********	**********	441.48000	.00000	.00000	660.68000	.00000	.00000
-.028	292.320	.15747	.01257	**********	**********	445.57000	.00000	.00000	666.84000	.00000	.00000
.005	391.800	.13447	.33879	**********	**********	448.99000	.00000	.00000	671.91000	.00000	.00000
.042	491.050	.14672	.21341	**********	**********	448.08000	.00000	.00000	671.79000	.00000	.00000
.009	591.410	.21237	.11034	**********	**********	448.81000	.00000	.00000	671.66000	.00000	.00000
.004	791.380	.18828	-.08023	**********	**********	447.75000	.00000	.00000	670.10000	.00000	.00000
-.072	933.660	-.46461	.10639	**********	**********	446.76000	.00000	.00000	668.62000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2369/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
9.998	-133.820	.17721	-.06290	**********	**********	444.98000	.00000	.00000	665.95000	.00000	.00000
10.027	-109.960	.35070	.56559	**********	**********	445.21000	.00000	.00000	666.30000	.00000	.00000
9.973	-58.468	.11340	.62818	**********	**********	445.60000	.00000	.00000	666.83000	.00000	.00000
9.948	7.191	.04351	.87764	**********	**********	445.41000	.00000	.00000	666.60000	.00000	.00000
9.954	92.304	.09476	.18348	**********	**********	445.37000	.00000	.00000	666.53000	.00000	.00000
9.975	191.550	.20845	.71013	**********	**********	445.99000	.00000	.00000	667.41000	.00000	.00000
10.061	249.870	1.73610	.00812	**********	**********	446.27000	.00000	.00000	667.89000	.00000	.00000
	GRADIENT	.00605	.12205	**********	**********	61.93906	.00000	.00000	92.69792	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
ZSWEEP = 2.000 GAS = 1.000

RUN NO. 2353/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
-9.958	316.930	974.16000	974.16000	88.00000	974.16000	973.09000	88.00000	75.00000	16.74500	99.76800
-10.000	342.280	974.05000	974.05000	88.00000	974.05000	973.09000	88.00000	75.00000	11.64600	99.76800
-10.033	392.740	973.95000	973.95000	88.00000	973.95000	973.09000	88.00000	75.00000	-2.13750	99.76800
-10.020	442.590	974.10000	974.10000	88.00000	974.10000	973.09000	88.00000	75.00000	-6.80040	99.76800
-10.049	492.590	973.92000	973.92000	88.00000	973.92000	973.09000	88.00000	75.00000	-12.21900	99.76800
-10.012	592.180	973.58000	973.58000	88.00000	973.58000	973.09000	88.00000	75.00000	-14.30400	99.76800
-9.932	690.910	973.34000	973.34000	88.00000	973.34000	973.09000	88.00000	75.00000	-14.28000	99.76800
-9.959	791.250	973.70000	973.70000	88.00000	973.70000	973.09000	88.00000	75.00000	-12.87900	99.76800
-10.000	991.420	973.31000	973.31000	88.00000	973.31000	973.09000	88.00000	75.00000	-12.35300	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2367/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
.021	6.963	976.30000	976.30000	78.00000	976.30000	976.14989	64.00000	74.00000	-10.73600	99.76800
-.008	41.685	976.44000	976.44000	78.00000	976.44000	976.14989	64.00000	74.00000	-12.29100	99.76800
-.015	91.985	976.22000	976.22000	78.00000	976.22000	976.14989	64.00000	74.00000	-12.12000	99.76800
-.022	142.230	976.37000	976.37000	78.00000	976.37000	976.14989	64.00000	74.00000	-13.18300	99.76800
-.035	192.420	976.50000	976.50000	78.00000	976.50000	976.14989	64.00000	74.00000	-14.77400	99.76800
-.028	292.320	976.24000	976.24000	78.00000	976.24000	976.14989	64.00000	74.00000	-15.15300	99.76800
.005	391.600	976.22000	976.22000	78.00000	976.22000	976.14989	64.00000	74.00000	-15.55200	99.76800
.042	491.050	976.54000	976.54000	78.00000	976.54000	976.14989	64.00000	74.00000	-15.59300	99.76800
.009	591.410	976.30000	976.30000	78.00000	976.30000	976.14989	64.00000	74.00000	-15.29100	99.76800
.004	791.300	976.50000	976.50000	78.00000	976.50000	976.14989	64.00000	74.00000	-15.44400	99.76800
-.072	933.630	976.30000	976.30000	78.00000	976.30000	976.14989	64.00000	74.00000	-15.48200	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2359/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
9.998	-133.820	975.92000	975.92000	80.00000	975.92000	976.05000	66.00000	72.00000	-11.67200	99.76800
10.027	-109.550	975.94000	975.94000	80.00000	975.94000	976.05000	66.00000	72.00000	-12.34200	99.76800
9.973	-59.459	976.30000	976.30000	80.00000	976.30000	976.05000	66.00000	72.00000	-13.45400	99.76800
9.948	7.191	975.60000	975.60000	80.00000	975.60000	976.05000	66.00000	72.00000	-15.21900	99.76800
9.954	92.304	976.28000	976.28000	80.00000	976.28000	976.05000	66.00000	72.00000	-15.36200	99.76800
9.975	191.550	976.09000	976.09000	80.00000	976.09000	976.05000	66.00000	72.00000	-14.65900	99.76800
10.061	249.870	976.28000	976.28000	80.00000	976.28000	976.05000	66.00000	72.00000	-14.44600	99.76800
	GRADIENT	135.70803	135.70803	11.12466	135.70803	135.73028	9.17801	10.01238	-2.11637	13.87382

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK010) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
ZSWEEP =	2.000	GAS =	1.000

RUN NO. 2353/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.938	316.930	-.04019	.51649	-14.94300	.01347	-.35350	-.00127	.00914	-.00235	.00096	.12353
-10.000	342.290	-.00203	.14923	-14.98300	.00245	-.31386	-.02347	.00549	.00044	.00078	.10960
-10.033	392.740	.15711	-.05003	-15.02400	.00083	-.28451	-.03002	.00365	.00007	.00067	.10229
-10.020	442.530	.07009	.30003	-15.02100	.00579	-.30342	-.01039	.00715	-.00032	.00072	.10639
-10.049	492.630	.22203	-.04309	-15.05100	.00027	-.31714	-.00209	.00799	-.00078	.00069	.11318
-10.012	592.160	.29005	-.23122	-15.00000	-.00578	-.33703	.01705	.00315	-.00149	.00056	.13292
-9.932	690.910	.05701	.10003	-14.90000	.00004	-.31754	.02433	.00047	-.00031	.00037	.14535
-9.969	791.250	.01940	.34119	-14.93000	.00714	-.28061	-.01705	.00460	.00018	.00037	.11349
-10.000	991.420	.12338	.16782	-14.98000	.00376	-.21422	-.00334	.00286	.00047	.00028	.10778
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2357/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.021	6.953	.31777	.60005	-4.99003	.01114	-.08002	-.02724	.00020	.00033	.00035	.08639
-.008	41.603	.28039	.20002	-4.99020	.00536	-.11002	-.02833	-.00275	.09117	.00046	.08715
-.015	91.925	.12318	-.07934	-4.99330	-.00009	-.13141	-.02033	.00248	.00032	.00018	.08598
-.022	142.230	.02059	-.05002	-4.99540	.00017	-.13310	-.01377	.00264	.00041	.00020	.09029
-.035	192.420	.05246	-.23664	-5.01440	-.00033	-.13977	-.00482	.00230	.00045	.00025	.09366
-.028	292.320	.15747	.01257	-5.01200	-.00045	-.14451	.00378	.00260	.00049	.00025	.10107
.005	391.600	.15447	.32979	-4.99450	.00441	-.14377	.02111	.00439	-.00041	.00021	.11033
.042	491.060	.14672	.21341	-4.99700	.00603	-.11472	.01443	.00480	-.00092	.00037	.11662
.009	591.410	.21273	.11034	-4.97970	.00282	-.08043	-.01201	.00228	.00035	.00004	.09915
.004	791.300	.10038	-.00083	-4.99480	-.00046	-.03821	-.01483	.00220	.00047	-.00002	.09197
-.072	935.880	-.48481	.10839	-5.03070	.00230	-.05208	-.01502	.00225	.00049	-.00001	.09360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2359/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
9.989	-133.820	.17721	-.00800	5.00110	.00276	.00374	.00073	.00301	-.00034	-.00002	.08518
10.027	-109.930	.38070	.50003	5.03600	.01020	.00375	.00330	.00129	.00029	.00005	.08525
9.973	-58.469	.11340	.62818	4.99700	.00372	.00778	.00324	.00116	.00065	.00019	.08643
9.948	7.191	.04381	.87754	4.99000	.01302	-.01340	.01801	.00303	.00022	.00005	.09071
9.954	92.304	.09476	.18348	4.97800	.00334	-.02067	.03365	.00303	-.00048	.00011	.09764
9.975	191.550	.20345	.71013	4.99000	.01154	-.00752	.04233	.00413	-.00129	.00007	.10166
10.061	249.870	1.78310	.00812	5.07300	.00487	.00025	.03713	.00358	-.00129	.00009	.10094
	GRADIENT	.00605	.12205	.63097	.00192	-.00185	.00223	.00042	.00003	.00001	.01261

V41B-09A (IA22),ORBITER(O)RC1) W/ET SEPARATING (RVK011) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2690/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.004	624.990	-.05859	-.22804	-.00009	.50749	-.01294	-.00002	-.00015	.00321	.00224	.23482
-19.959	693.520	-.20739	-.05036	.00419	.46094	-.02994	-.00013	-.00014	.00317	.00199	.23504
-19.935	798.250	-.29107	.19731	.00671	.39153	-.03093	-.00168	-.00003	.00314	-.00239	.23468
-20.045	999.410	.06111	.05598	-.00101	.18361	-.00648	-.00316	.00018	.00058	-.00390	.23494
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2694/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.008	474.540	-.04449	.17300	.00543	.46369	-.01123	-.00123	-.00028	.00297	.00374	.23444
-15.031	499.610	.11971	-.00724	.00243	.44349	-.01786	-.00200	-.00013	.00332	.00448	.23460
-14.980	548.840	.09378	.35475	.00814	.41234	-.03158	-.00104	-.00026	.00310	.00299	.23468
-14.975	598.920	-.07097	.20627	.00552	.35378	-.03152	.00031	-.00044	.00237	-.00423	.23395
-14.947	698.390	-.20546	.40972	.00915	.28122	-.02356	-.00045	-.00019	.00049	-.01155	.23409
-14.980	798.810	-.10404	-.03908	.00513	.22541	-.01637	-.00257	.00009	.00050	-.00904	.23474
-15.010	999.350	.15343	-.19286	-.00071	.14421	.00127	-.00353	.00006	.00060	-.00424	.23444
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.008	324.440	.14531	-.05489	.00142	.39532	-.00166	-.00427	-.00001	.00220	-.00480	.22958
-10.032	399.600	.04703	.19349	.00307	.35371	-.00507	-.00379	.00000	.00167	-.00544	.22988
-10.001	399.090	.12223	.14728	.00858	.32454	-.01565	-.00243	-.00029	.00156	-.00609	.23006
-9.973	448.930	-.01016	-.44626	-.00442	.26990	-.02282	-.00165	-.00032	.00102	-.00853	.23021
-9.993	499.040	.02576	-.12655	.00069	.23570	-.02078	-.00039	-.00039	.00027	-.01470	.22976
-9.955	599.640	-.03313	.08332	.00419	.20252	-.01083	-.00305	-.00004	.00057	-.01402	.22991
-10.010	699.160	.08823	.10759	.00500	.15512	-.00196	-.00416	-.00000	.00038	-.01225	.22985
-10.083	800.230	.30374	-.32331	-.00831	.13305	.00077	-.00403	-.00005	.00044	-.01098	.23012
-10.040	999.620	.25152	.33032	.00611	.13890	.00071	-.00402	-.00006	.00044	-.01093	.22997
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (RVK011) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2713/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-5.511	199.500	.13771	-.03772	.00330	.30959	.01486	-.00459	-.00060	.00120	-.00406	.22993
-5.513	249.200	.15560	.07241	-.00008	.26458	.00393	-.00461	-.00007	.00055	-.01004	.23002
-5.489	298.550	.08195	-.00539	.00354	.24621	-.00425	-.00432	.00000	.00049	-.01034	.22999
-5.468	399.440	.19177	-.00922	.00263	.21160	-.00974	-.00353	-.00014	.00047	-.01044	.23013
-5.473	493.620	.09739	.05054	.00330	.16010	-.00526	-.00423	-.00011	.00034	-.01320	.22984
-5.516	599.200	.07305	.06487	.00390	.14397	-.00075	-.00423	-.00011	.00046	-.01232	.22996
-5.538	700.010	.24205	.01608	-.00138	.13535	.00086	-.00434	-.00011	.00040	-.01162	.22993
-5.527	799.310	.21900	-.12825	-.00047	.13522	.00074	-.00439	-.00011	.00041	-.01164	.22990
-5.516	819.210	.20310	.13054	.00349	.13557	.00073	-.00424	-.00012	.00041	-.01181	.22987
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2370/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.002	11.605	.18465	.44930	.00308	.19187	.00934	-.01409	.00006	.00068	.02363	.23101
-.021	42.248	.21242	-.15281	-.00105	.20224	.01635	-.01374	.00042	.00111	.02120	.23049
.011	91.523	.09486	-.03574	.00326	.23468	.01739	-.01201	-.00018	.00137	.01412	.23071
.016	141.170	.17575	.30757	.00335	.24359	.01321	-.01438	-.00000	.00076	.01054	.23089
.020	190.870	.07053	-.01608	.00192	.21626	.00839	-.01392	.00017	.00002	.00474	.23113
.039	290.730	.07245	.12444	.00309	.20436	.00413	-.01338	-.00001	.00026	.00359	.23077
.029	390.750	.16597	-.03228	.00300	.18712	-.00086	-.01389	-.00007	.00039	.00189	.23095
-.001	491.230	.17533	.15203	.00335	.16324	.00070	-.01369	-.00009	.00049	.00028	.23123
-.042	591.690	.21015	.05773	-.00005	.16422	.00093	-.01364	-.00026	.00093	.00350	.23099
-.000	791.300	.25472	1.01250	.01625	.16351	.00112	-.01352	-.00027	.00093	.00356	.23146
-.000	931.230	.22345	.44453	.00778	.16337	.00112	-.01363	-.00027	.00094	.00350	.23131
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2376/ 0 RN/L = .8 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
4.958	-57.126	.30781	-.32554	-.00374	.15544	-.00049	-.01322	-.00016	.00007	.01125	.22947
4.935	7.767	.00031	-.23302	-.00393	.19477	.00991	-.01459	-.00019	.00090	.01886	.23020
5.000	41.388	.12054	-.12301	.00271	.20948	.01132	-.01325	-.00015	.00106	.01214	.23105
5.011	91.283	.15513	.31433	.00322	.20823	.01282	-.01439	-.00028	.00050	.00582	.23174
5.033	190.480	.24328	.24229	.00710	.16978	.00851	-.01425	-.00002	.00054	.00136	.23191
5.024	290.660	.24924	-.01221	.00235	.19425	.00152	-.01374	-.00030	.00053	.00248	.23200
4.992	391.240	.20394	.24341	.00611	.17031	.00035	-.01399	-.00026	.00043	-.00045	.23296
4.975	591.630	.20787	-.53359	-.00573	.16218	.00132	-.01405	-.00040	.00098	.00294	.23268
	GRADIENT	.00122	-.03026	-.00012	.02508	.00128	-.00188	-.00002	.00012	.00243	.02964

V41B-D9A (IA22),ORBITER(C+RC1) W/ET SEPARATING (SVK011) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2690/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.004	624.990	-4.99300	-.00095	-.00009	.17513	-.00205	.04594	.00732	-.00109	.00328
-19.959	699.520	-5.00100	-.00118	.00019	.13349	-.01605	.04570	.00721	-.00108	.00321
-19.935	788.250	-5.00300	-.00132	.00071	.08053	-.02006	.04136	.00656	-.00097	.00318
-20.045	992.410	-4.99400	-.00124	-.00101	-.14770	.00440	.03779	.00418	-.00075	.00063
	GRADIENT	.00000	.00000	.00000	.00300	.00000	.00000	.00000	.00000	.00000

RUN NO. 2694/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.008	474.540	-4.99400	-.00076	.00343	.14928	-.00026	.04776	.00516	-.00122	.00302
-15.031	499.610	-4.99500	-.00101	.00243	.11045	-.00622	.04841	.00538	-.00107	.00337
-14.930	548.640	-5.00500	-.00109	.00914	.07221	-.02034	.04693	.00635	-.00119	.00314
-14.975	593.920	-5.00200	-.00092	.00532	.01305	-.02055	.03979	.00771	-.00139	.00241
-14.947	693.390	-5.00700	-.00114	.00315	-.03836	-.01609	.03248	.00595	-.00113	.00054
-14.980	793.810	-5.00000	-.00128	.00513	-.10005	-.00339	.03500	.00483	-.00085	.00055
-15.010	993.350	-4.99800	-.00100	-.00071	-.19946	.01224	.03976	.00377	-.00088	.00065
	GRADIENT	.00000	.00000	.00000	.00300	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.008	324.440	-4.99000	-.00080	.00142	.05200	.00929	.03916	.00311	-.00095	.00224
-10.032	349.600	-4.99200	-.00087	.00307	.03101	.00587	.03944	.00358	-.00093	.00171
-10.001	399.090	-4.99000	-.00083	.00339	-.00027	-.00491	.03781	.00495	-.00122	.00161
-9.973	448.930	-5.00200	-.00080	-.00442	-.04342	-.01190	.03529	.00571	-.00126	.00107
-9.993	499.040	-5.00300	-.00094	.00268	-.09308	-.00905	.02912	.00693	-.00133	.00032
-9.966	593.640	-4.99300	-.00105	.00419	-.13365	.00009	.02932	.00433	-.00098	.00062
-10.010	699.160	-4.99000	-.00086	.00300	-.17760	.00897	.03163	.00322	-.00094	.00043
-10.083	800.230	-4.99200	-.00068	-.00331	-.19413	.01171	.03295	.00336	-.00099	.00048
-10.040	999.620	-4.99300	-.00087	.00511	-.19412	.01166	.03299	.00336	-.00100	.00048
	GRADIENT	.00000	.00000	.00000	.00300	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(O+RC1) W/ET SEPARATING (SVK011) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2713/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.511	199.500	-4.99920	-.00003	.00330	-.01369	.02568	.03936	.00271	-.00153	.00125
-5.513	249.200	-4.99000	-.00078	-.00008	-.08390	.01473	.03328	.00267	-.00100	.00060
-5.469	293.550	-4.99230	-.00089	.00334	-.08383	.00855	.03302	.00297	-.00092	.00053
-5.469	343.440	-4.99190	-.00092	.00283	-.11389	.00105	.03285	.00375	-.00106	.00052
-5.473	493.620	-4.99380	-.00093	.00330	-.16031	.00854	.03016	.00306	-.00104	.00038
-5.516	599.200	-4.99030	-.00092	.00280	-.16491	.01006	.03105	.00306	-.00104	.00050
-5.558	700.010	-4.98050	-.00081	-.00138	-.19307	.01145	.03169	.00294	-.00104	.00045
-5.527	799.310	-4.98930	-.00091	-.00047	-.19375	.01154	.03175	.00290	-.00104	.00045
-5.516	819.210	-4.98930	-.00080	.00349	-.19377	.01155	.03162	.00306	-.00105	.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2370/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.002	11.605	-4.97871	-.00059	.00308	-.14368	.02067	.06788	-.00656	-.00088	.00072
-.021	42.248	-4.97230	-.00100	-.00106	-.13323	.02737	.06544	-.00630	-.00052	.00116
.011	91.523	-4.96978	-.00035	.00328	-.10080	.02640	.05833	-.00458	-.00113	.00142
.018	141.170	-4.97313	-.00056	.00055	-.09168	.02423	.05476	-.00695	-.00095	.00081
.029	190.870	-4.97545	-.00081	.00192	-.11393	.01971	.04895	-.00649	-.00078	.00007
.038	290.730	-4.96959	-.00054	.00308	-.13073	.01514	.04778	-.00595	-.00096	.00030
.029	390.730	-4.97075	-.00069	.00200	-.14303	.01015	.04609	-.00825	-.00102	.00044
-.001	491.230	-4.96776	-.00065	.00336	-.16372	.01171	.04446	-.00826	-.00103	.00053
-.042	591.630	-4.96738	-.00047	-.00005	-.17054	.01169	.04765	-.00822	-.00121	.00098
-.000	791.300	-4.96739	-.00047	.01825	-.17121	.01212	.04772	-.00810	-.00121	.00098
-.000	931.290	-4.96759	-.00046	.00778	-.17133	.01212	.04764	-.00822	-.00121	.00098
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2376/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.988	-57.126	-4.99030	-.00061	-.00374	-.18042	.01054	.05555	-.00578	-.00111	.00011
4.956	7.767	-4.97856	-.00040	-.00093	-.14137	.02095	.05320	-.00714	-.00114	.00094
5.000	41.388	-4.97863	-.00045	.00271	-.12733	.02239	.05356	-.00579	-.00110	.00110
5.011	91.283	-4.97539	-.00027	.00122	-.12776	.02338	.05013	-.00695	-.00123	.00054
5.033	190.460	-4.97539	-.00051	.00710	-.14439	.01959	.04544	-.00744	-.00096	.00058
5.024	290.860	-4.97391	-.00041	.00235	-.13239	.01248	.04647	-.00635	-.00124	.00058
4.992	331.240	-4.97793	-.00047	.00211	-.16327	.01132	.04355	-.00649	-.00120	.00047
4.975	591.630	-4.98745	-.00030	-.00573	-.17173	.01229	.04698	-.00856	-.00135	.00103
	GRADIENT	-.64099	-.00005	-.00012	-.01320	.00270	.00814	-.00092	-.00015	.00012

V41B-D9A (IA22),ORBITER(C+RC1) W/ET SEPARATING (TVK011) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2690/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.004	624.990	-.05959	-.22804	-.00895	-.12810	438.61000	.00000	.00000	656.42000	.00000	.00000
-19.959	699.520	-.20739	-.05036	-.02845	-.15527	439.75000	.00000	.00000	656.62000	.00000	.00000
-19.935	799.250	-.29107	.19731	.01410	-.06807	438.14000	.00000	.00000	655.72000	.00000	.00000
-20.045	999.410	.05111	.06598	.03712	-.04271	438.56000	.00000	.00000	656.34000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2694/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.008	474.540	-.04449	.17300	-.07718	-.20037	441.74000	.00000	.00000	661.09000	.00000	.00000
-15.031	499.610	.11971	-.00724	-.08743	-.27584	440.84000	.00000	.00000	659.76000	.00000	.00000
-14.980	548.840	.08378	.35475	.00235	-.16951	440.37000	.00000	.00000	659.95000	.00000	.00000
-14.975	598.920	-.07037	.20027	.28338	.22380	441.87000	.00000	.00000	661.28000	.00000	.00000
-14.947	698.390	-.20546	.40972	.18828	.13142	441.92000	.00000	.00000	661.38000	.00000	.00000
-14.980	798.810	-.10404	-.03908	.04457	-.08753	442.08000	.00000	.00000	661.59000	.00000	.00000
-15.010	999.350	.15343	-.19235	.05049	-.04473	441.68000	.00000	.00000	661.02000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.008	324.440	.14531	-.05469	-.19236	-.38814	441.22000	.00000	.00000	660.32000	.00000	.00000
-10.032	349.600	.04703	.19549	.01583	-.10780	440.38000	.00000	.00000	659.08000	.00000	.00000
-10.001	399.020	.12023	.14728	-.00225	-.12814	440.54000	.00000	.00000	659.31000	.00000	.00000
-9.973	448.930	-.01013	-.44226	.04378	-.05813	439.82000	.00000	.00000	659.33000	.00000	.00000
-9.983	499.040	.03578	-.12655	.01933	-.07001	439.83000	.00000	.00000	659.27000	.00000	.00000
-9.986	599.640	-.03313	.05932	.04075	-.04386	441.04000	.00000	.00000	660.06000	.00000	.00000
-10.010	699.150	.08523	.10759	.04417	-.04378	440.42000	.00000	.00000	659.12000	.00000	.00000
-10.083	800.230	.30374	-.32331	.04113	-.04159	440.91000	.00000	.00000	659.65000	.00000	.00000
-10.040	999.620	.25152	.33032	.03358	-.03289	440.82000	.00000	.00000	659.72000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(C4RC1) W/ET SEPARATING (TVK011) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2713/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.511	199.500	.13771	-.03772	.01536	-.06492	435.66000	.00000	.00000	652.30000	.00000	.00000
-5.513	249.200	.15030	.07241	.01730	-.07683	434.81000	.00000	.00000	650.73000	.00000	.00000
-5.489	298.930	.09196	-.00638	-.01932	-.13450	435.27000	.00000	.00000	651.43000	.00000	.00000
-5.468	348.440	.19177	-.00022	.01739	-.03647	434.54000	.00000	.00000	650.32000	.00000	.00000
-5.473	498.620	.08739	.08034	.02035	-.00518	435.11000	.00000	.00000	651.19000	.00000	.00000
-5.516	599.200	.07205	.03487	.03324	-.00726	435.21000	.00000	.00000	651.33000	.00000	.00000
-5.559	700.010	.24205	.01808	.02039	-.00605	434.73000	.00000	.00000	650.61000	.00000	.00000
-5.527	799.310	.21900	-.13525	.02474	-.00107	435.44000	.00000	.00000	651.69000	.00000	.00000
-5.516	819.210	.20319	.13054	.02198	.00339	435.93000	.00000	.00000	652.44000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2370/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.002	11.603	.18465	.44583**********			444.17000	.00000	.00000	664.74000	.00000	.00000
-.021	42.248	.21242	-.15281**********			444.03000	.00000	.00000	664.57000	.00000	.00000
.011	91.523	.09106	-.05374**********			443.81000	.00000	.00000	664.19000	.00000	.00000
.016	141.170	.17575	.30757**********			443.73000	.00000	.00000	664.17000	.00000	.00000
.030	190.870	.07053	-.01800**********			443.70000	.00000	.00000	664.03000	.00000	.00000
.039	290.730	.07246	.15149**********			443.63000	.00000	.00000	663.93000	.00000	.00000
.029	390.780	.10037	-.03553**********			443.64000	.00000	.00000	663.94000	.00000	.00000
-.001	491.283	.17033	.18888**********			443.30000	.00000	.00000	663.57000	.00000	.00000
-.042	591.080	.21016	.05778**********			443.13000	.00000	.00000	663.18000	.00000	.00000
-.000	791.300	.22472	1.01200**********			443.20000	.00000	.00000	663.28000	.00000	.00000
-.000	931.280	.22345	.44453**********			443.04000	.00000	.00000	663.05000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2376/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.958	-57.126	.30781	-.28854**********			444.57000	.00000	.00000	665.34000	.00000	.00000
4.956	7.767	.00051	-.23302**********			444.93000	.00000	.00000	665.91000	.00000	.00000
5.000	41.393	.12854	-.12501**********			445.64000	.00000	.00000	667.24000	.00000	.00000
5.011	91.283	.15513	.31439**********			444.72000	.00000	.00000	665.62000	.00000	.00000
5.033	190.480	.24828	.24269**********			442.30000	.00000	.00000	661.99000	.00000	.00000
5.024	290.660	.24824	-.01221**********			441.50000	.00000	.00000	660.75000	.00000	.00000
4.992	391.240	.20394	.24341**********			441.56000	.00000	.00000	660.83000	.00000	.00000
4.975	591.630	.20787	-.53359**********			442.00000	.00000	.00000	661.49000	.00000	.00000
	GRADIENT	.00122	-.03026**********			57.22724	.00000	.00000	85.73580	.00000	.00000

V41B-D9A (IA22),ORBITER(4RC1) W/ET SEPARATING (UVK011) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2690/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	FRC	FRC2	TGAS	PSI	DLOBAL	TB1	TB2	DT	T
-20.004	684.900	979.00000	979.00000	83.00000	979.00000	979.67000	67.00000	72.00000	23.26100	99.64200
-19.989	000.930	979.10000	979.10000	83.00000	979.10000	979.67000	67.00000	72.00000	25.78400	99.64200
-19.935	783.250	979.76000	979.76000	83.00000	979.76000	979.67000	67.00000	72.00000	37.22400	99.64200
-20.045	989.410	981.22000	981.22000	83.00000	981.22000	979.67000	67.00000	72.00000	32.65100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2694/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	FRC	FRC2	TGAS	PSI	DLOBAL	TB1	TB2	DT	T
-15.008	474.540	980.53000	980.53000	85.00000	980.53000	980.31000	69.00000	74.00000	28.09200	99.64200
-15.031	488.610	980.60000	980.60000	85.00000	980.60000	980.31000	69.00000	74.00000	28.62800	99.64200
-14.980	540.840	980.70000	980.70000	85.00000	980.70000	980.31000	69.00000	74.00000	28.65400	99.64200
-14.975	583.980	980.83000	980.83000	85.00000	980.83000	980.31000	69.00000	74.00000	32.65100	99.64200
-14.947	609.380	980.90000	980.90000	85.00000	980.90000	980.31000	69.00000	74.00000	34.39200	99.64200
-14.980	783.810	980.77000	980.77000	85.00000	980.77000	980.31000	69.00000	74.00000	30.65200	99.64200
-15.010	903.380	980.91000	980.91000	85.00000	980.91000	980.31000	69.00000	74.00000	16.23200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	FRC	FRC2	TGAS	PSI	DLOBAL	TB1	TB2	DT	T
-10.008	324.440	975.40000	975.40000	86.00000	975.40000	975.23009	71.00000	80.00000	39.15600	99.51600
-10.032	349.600	975.60000	975.60000	86.00000	975.60000	975.23009	71.00000	80.00000	35.59200	99.51600
-10.001	389.080	975.48000	975.48000	86.00000	975.48000	975.23009	71.00000	80.00000	30.90300	99.51600
-9.973	449.930	975.40000	975.40000	86.00000	975.40000	975.23009	71.00000	80.00000	31.23500	99.51600
-9.993	488.040	975.30000	975.30000	86.00000	975.30000	975.23009	71.00000	80.00000	29.04900	99.51600
-9.986	588.040	975.50000	975.50000	86.00000	975.50000	975.23009	71.00000	80.00000	23.40500	99.51600
-10.010	678.180	975.00000	975.00000	86.00000	975.00000	975.23009	71.00000	80.00000	16.92200	99.51600
-10.083	800.230	975.70000	975.70000	86.00000	975.70000	975.23009	71.00000	80.00000	12.01800	99.51600
-10.040	989.620	975.57000	975.57000	86.00000	975.57000	975.23009	71.00000	80.00000	7.84650	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (1A22),ORBITER((4RC1) W/ET SEPARATING (UVK011) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2713/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
-5.511	189.500	976.62000	976.62000	83.00000	976.62000	976.32000	72.00000	78.00000	19.47900	99.51600
-5.513	249.200	976.62000	976.62000	83.00000	976.62000	976.32000	72.00000	78.00000	17.57200	99.51600
-5.489	283.900	976.72000	976.72000	83.00000	976.72000	976.32000	72.00000	78.00000	15.48400	99.51600
-5.498	350.440	977.02000	977.02000	83.00000	977.02000	976.32000	72.00000	78.00000	15.65100	99.51600
-5.473	409.020	976.62000	976.62000	83.00000	976.62000	976.32000	72.00000	78.00000	12.23300	99.51600
-5.516	569.200	976.62000	976.62000	83.00000	976.62000	976.32000	72.00000	78.00000	8.80510	99.51600
-5.523	709.010	976.42000	976.42000	83.00000	976.42000	976.32000	72.00000	78.00000	6.07490	99.51600
-5.527	788.310	976.32000	976.32000	83.00000	976.32000	976.32000	72.00000	78.00000	3.70470	99.51600
-5.516	819.210	976.32000	976.32000	83.00000	976.32000	976.32000	72.00000	78.00000	2.19090	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2370/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
-.002	11.005	976.11000	976.11000	81.00000	976.11000	976.01000	69.00000	72.00000	-8.03140	99.76800
-.021	42.013	976.01000	976.01000	81.00000	976.01000	976.01000	69.00000	72.00000	-7.70340	99.76800
.011	91.583	976.01000	976.01000	81.00000	976.01000	976.01000	69.00000	72.00000	-6.73310	99.76800
.016	141.170	976.72000	976.72000	81.00000	976.72000	976.01000	69.00000	72.00000	-6.83000	99.76800
.020	190.870	976.01000	976.01000	81.00000	976.01000	976.01000	69.00000	72.00000	-7.67760	99.76800
.039	250.730	976.01000	976.01000	81.00000	976.01000	976.01000	69.00000	72.00000	-8.60460	99.76800
.029	330.730	976.01000	976.01000	81.00000	976.01000	976.01000	69.00000	72.00000	-9.41150	99.76800
-.001	401.870	976.11000	976.11000	81.00000	976.11000	976.01000	69.00000	72.00000	-9.82050	99.76800
-.042	591.800	976.21000	976.21000	81.00000	976.21000	976.01000	69.00000	72.00000	-9.88330	99.76800
-.000	701.000	976.42000	976.42000	81.00000	976.42000	976.01000	69.00000	72.00000	-10.19000	99.76800
-.000	931.280	976.82000	976.82000	81.00000	976.82000	976.01000	69.00000	72.00000	-10.70300	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2376/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
4.990	-57.125	970.81000	970.81000	84.00000	970.81000	970.41000	68.00000	75.00000	-12.39200	99.76800
4.985	7.787	970.41000	970.41000	84.00000	970.41000	970.41000	68.00000	75.00000	-12.48600	99.76800
5.000	41.203	970.91000	970.01000	84.00000	970.01000	970.41000	68.00000	75.00000	-12.84500	99.76800
5.011	91.623	972.41000	972.41000	84.00000	972.41000	970.41000	68.00000	75.00000	-13.91700	99.76800
5.033	190.460	974.01000	974.01000	84.00000	974.01000	970.42000	68.00000	75.00000	-14.00300	99.76800
5.024	220.660	975.82000	975.82000	84.00000	975.82000	970.42000	68.00000	75.00000	-14.63300	99.76800
4.992	391.240	977.21000	977.21000	84.00000	977.21000	970.42000	68.00000	75.00000	-14.62300	99.76800
4.975	591.630	978.67000	978.67000	84.00000	978.67000	970.42000	68.00000	75.00000	-14.27900	99.76800
	GRADIENT	124.81782	124.81782	10.81499	124.81782	124.68332	8.75459	9.65524	-1.60744	12.84511

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK011) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UNCLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2690/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.004	624.990	-.05958	-.22804	-24.93000	-.00103	-.54412	-.02874	.02271	-.00090	.00102	.11945
-19.969	658.520	-.20739	-.05036	-24.93000	.00301	-.56315	-.01019	.02453	-.00240	.00099	.13451
-19.935	799.250	-.28107	.19731	-24.94100	.00340	-.60430	.02706	.02394	-.00526	.00118	.16382
-20.045	989.410	.05111	.03353	-25.03000	-.00225	-.53533	.00438	.01657	-.00128	.00084	.15566
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2694/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.008	474.540	-.04449	.17300	-19.93000	.00467	-.43308	-.01927	.01511	.00069	.00104	.11393
-15.031	499.610	.11971	-.00724	-20.02000	.00142	-.40003	-.03518	.01573	.00042	.00080	.10955
-14.990	548.840	.03578	.30475	-19.91000	.00705	-.41487	-.03571	.01678	-.00049	.00075	.11880
-14.975	589.920	-.07097	.20027	-19.93300	.00451	-.43300	-.00309	.01751	-.00124	.00070	.12690
-14.947	699.300	-.20246	.40972	-19.89400	.00002	-.43030	.02432	.01995	-.00227	.00070	.15433
-14.980	799.910	-.10404	-.03008	-19.93000	.00335	-.47176	.03644	.01934	-.00431	.00114	.17349
-15.010	999.350	.15543	-.19266	-19.92900	-.00171	-.32175	-.04315	.01088	.00091	.00022	.12153
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.008	324.440	.14531	-.05403	-14.93000	.00382	-.33348	-.01392	.01250	.00023	.00051	.11623
-10.032	349.600	.04703	.19049	-15.01700	.00309	-.30733	-.02825	.01082	.00145	.00039	.10345
-10.001	399.050	.12225	.14728	-14.99707	.00575	-.29035	-.02805	.01233	.00045	.00039	.10595
-9.973	448.930	-.01016	-.44626	-14.97800	-.00533	-.30905	-.01721	.01400	-.00005	.00041	.11079
-9.933	499.040	.02576	-.12885	-14.99700	-.00016	-.32255	-.00407	.01374	-.00033	.00034	.11826
-9.935	503.640	-.03313	.08032	-14.93200	.00313	-.34519	.02115	.01429	-.00144	.00027	.14097
-10.010	599.160	.03823	.10759	-15.00000	.00404	-.32511	.02114	.01489	-.00222	.00056	.14635
-10.083	600.230	.30374	-.32331	-15.07200	-.00220	-.29385	-.02220	.00552	.00094	-.00001	.11088
-10.040	999.620	.25152	.33032	-15.02300	.00384	-.21804	-.00359	.00336	.00128	.00002	.10658
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22) ET SEPARATING FROM ORB (O4RC1) (AVK011) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DSETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2713/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.511	199.500	.13771	-.03772	-10.47900	.00327	-.21874	-.01437	.01381	-.00091	.00020	.10783
-5.513	249.200	.15030	.07241	-10.48300	-.00035	-.21530	-.02611	.00801	.00039	.00010	.09819
-5.469	299.950	.08196	-.00538	-10.47700	.00257	-.21826	-.01941	.00997	.00043	.00012	.09969
-5.468	399.440	.19177	-.00822	-10.46300	.00172	-.23182	-.00686	.01166	-.00035	.00012	.11151
-5.473	499.620	.08739	.05064	-10.46700	.00242	-.21376	.01783	.01210	-.00101	.00004	.12620
-5.516	599.200	.07605	.06467	-10.50300	.00199	-.21639	.01212	.01166	-.00124	.00031	.12677
-5.538	700.010	.24206	.01808	-10.55300	-.00218	-.19460	-.02271	.00768	.00052	-.00013	.09914
-5.527	799.310	.21930	-.13325	-10.51600	-.00128	-.19027	-.03150	.00759	.00130	-.00017	.09834
-5.516	819.210	.22010	.13054	-10.50500	.00229	-.19733	-.03129	.00768	.00133	-.00017	.10021
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2370/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.002	11.605	.18485	.44990	-4.90040	.00239	-.19128	-.02804	-.00043	.00041	.00036	.08696
-.021	42.248	.21242	-.15231	-4.87030	-.00505	-.19272	-.02939	-.00182	.00127	.00045	.08717
.011	91.523	.00206	-.03074	-4.91230	.00201	-.19409	-.02832	.00292	.00047	.00017	.08506
.016	141.170	.17575	.30757	-4.93700	.00579	-.19754	-.01365	.00338	.00024	.00019	.09070
.020	190.870	.07053	-.01308	-4.90330	.00111	-.19078	-.00459	.00295	.00051	.00023	.09480
.039	290.730	.07246	.12444	-4.94360	.00239	-.19358	.01042	.00281	.00034	.00024	.10225
.029	390.750	.16597	-.03528	-4.90970	.00231	-.19313	.02138	.00429	-.00048	.00023	.11089
-.001	491.230	.17535	.15206	-4.91030	.00470	-.19499	.01376	.00457	-.00099	.00038	.10879
-.042	591.690	.21015	.05773	-5.02970	-.00032	-.20395	-.01282	.00257	.00037	.00004	.08858
-.000	791.300	.25472	1.01260	-4.92720	.01579	-.18285	-.01494	.00228	.00049	-.00002	.09139
-.000	931.220	.22545	.44483	-4.91030	.00732	-.19203	-.01502	.00246	.00056	-.00001	.09359
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2376/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.958	-57.126	.30781	-.33554	-.03160	-.00435	-.01487	-.00974	.00142	.00048	.00007	.08526
4.955	7.767	.00051	-.23502	-.02307	-.00133	-.01086	-.01102	.00224	.00073	.00020	.08617
5.000	41.388	.12254	-.12501	.02307	.00286	-.01087	-.00512	.00515	-.00025	.00009	.08768
5.011	91.283	.15513	.31439	.03282	.00485	-.01529	.00550	.00346	.00041	.00014	.09277
5.033	190.480	.24958	.24229	.03371	.00349	-.01540	.02160	.00330	-.00002	.00018	.09384
5.024	290.650	.24924	-.01221	.03799	.00195	-.01054	.03016	.00388	-.00027	.00014	.10506
4.992	391.240	.20394	.24341	.00447	.00554	-.01882	.01910	.00359	-.00035	.00008	.10030
4.975	591.630	.20787	-.53359	-.01265	-.00803	-.01578	.00126	.00236	.00024	-.00002	.08976
	GRADIENT	.00122	-.03026	-.00297	-.00017	-.01758	-.00142	.00029	.00009	.00003	.01109

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2691/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.015	625.400	200.05000	-.06549	-.00182	.48300	-.01355	.00058	-.00056	.00362	.00112	.23407
-20.058	700.690	200.42000	-.15084	-.00291	.35576	-.03893	-.00023	-.00038	.00254	-.00680	.23317
-20.015	799.650	200.08000	.06328	.00406	.29381	-.03154	.00276	-.00056	.00062	-.01155	.23554
-19.939	953.880	199.60000	-.15483	.00394	.18026	-.01479	-.00361	.00016	.00057	-.00434	.23537
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2702/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-14.991	474.400	200.01000	-.14237	.00007	.45418	-.01942	-.00052	-.00032	.00142	-.00531	.22932
-15.020	499.940	200.11000	-.02771	-.00009	.37938	-.01891	-.00029	-.00034	.00141	-.00784	.22942
-15.035	550.090	200.23000	-.24948	-.00182	.30065	-.03875	-.00010	-.00045	.00090	-.01261	.22988
-15.059	600.230	200.42000	-.27207	-.00342	.24107	-.03379	-.00015	-.00042	.00069	-.01745	.22955
-15.069	700.720	200.33000	-.11503	-.00032	.20004	-.01907	-.00044	.00004	.00052	-.01360	.22892
-14.950	799.250	200.10000	.14226	.00088	.17517	-.01417	-.00394	.00011	.00035	-.01300	.22995
-15.009	899.300	200.07000	.13389	.00333	.14222	-.01092	-.00429	.00008	.00045	-.01096	.22971
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2705/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-9.983	324.460	200.12000	.43550	.01201	.40071	-.01303	-.00129	-.00038	.00117	-.01273	.23003
-9.988	349.540	200.18000	.29352	.00797	.35022	-.01886	-.00284	-.00021	.00153	-.00725	.22979
-10.039	399.960	200.23000	.53346	.00825	.28503	-.01855	-.00298	-.00023	.00063	-.00650	.23015
-10.037	449.900	200.28000	.06770	.00143	.22807	-.01591	-.00277	-.00024	.00028	-.01125	.22997
-10.057	500.360	200.38000	.09123	.00232	.18784	-.01199	-.00341	-.00010	.00024	-.01281	.23027
-10.059	600.490	200.41000	-.01560	.00072	.15539	-.01225	-.00412	-.00006	.00042	-.01219	.22985
-10.030	699.780	200.21000	.04825	.00137	.14345	-.01011	-.00407	-.00008	.00050	-.01120	.22960
-9.927	799.490	200.02000	.22174	.00835	.13089	-.01075	-.00403	-.00004	.00044	-.01098	.23003
-10.013	899.370	200.17000	-.33839	-.00278	.13849	-.01077	-.00414	-.00005	.00044	-.01097	.22954
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) 4/ET SEPARATING (RVK012) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2714/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.517	193.920	200.13000	.39438	.00531	.29205	.00279	-.00396	-.00023	.00144	-.01400	.22995
-5.514	249.850	200.13000	-.20286	.00022	.28985	-.00152	-.00452	.00005	.00075	-.01080	.22953
-5.554	300.360	200.15000	-.57243	-.00732	.23976	-.00037	-.00388	-.00013	.00047	-.00909	.22989
-5.552	400.320	200.27000	.49308	.00758	.18442	-.00758	-.00410	-.00009	.00037	-.01190	.22966
-5.543	500.220	200.24000	-.31477	-.00433	.15222	-.00291	-.00421	-.00009	.00033	-.01303	.23000
-5.503	599.590	200.28000	-.16486	-.00095	.13941	.00016	-.00445	-.00011	.00044	-.01203	.22984
-5.459	693.720	200.11000	-.03100	.00023	.13509	.00074	-.00429	-.00013	.00042	-.01177	.22924
-5.507	759.250	200.23000	.12012	.00341	.13546	.00073	-.00438	-.00011	.00041	-.01179	.23014
-5.513	819.220	200.10000	-.13030	.00167	.13537	.00076	-.00440	-.00011	.00041	-.01176	.22972
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2371/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-.006	11.694	200.12000	-.02647	-.00029	.23515	.00703	-.01129	-.00012	.00112	.01503	.23229
-.032	42.491	200.17000	.35918	.00973	.24403	.01374	-.01374	-.00001	.00083	.01018	.23202
-.016	92.395	200.15000	-.45043	-.00185	.25523	.00986	-.01354	-.00003	.00098	.00686	.23187
-.029	142.130	200.20000	.60008	.01618	.23572	.01013	-.01417	.00000	.00072	.00518	.23241
-.042	192.510	200.19000	.63400	.01442	.22208	.01335	-.01408	.00012	.00025	.00352	.23245
-.038	292.340	200.16000	-.50047	-.00003	.20512	.01111	-.01359	-.00014	.00040	.00293	.23227
-.023	392.000	200.17000	.75329	.01103	.17733	-.00992	-.01338	-.00008	.00038	.00027	.23206
.012	491.630	200.24000	-.05535	.00088	.16003	.01011	-.01370	-.00019	.00081	.00195	.23159
.040	591.040	200.22000	.60000	.01234	.16383	.01109	-.01343	-.00027	.00094	.00732	.23183
.001	791.310	200.24000	.27830	.00704	.16278	.01113	-.01382	-.00027	.00094	.00335	.23162
-.000	931.340	200.18000	.13535	.00484	.16323	.01110	-.01344	-.00027	.00093	.00343	.23202
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2377/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
5.025	-59.682	200.30000	.49825	.01001	.17637	.01829	-.01371	-.00045	.00036	.01958	.23093
4.979	6.929	200.20000	1.55540	.02547	.21613	.01216	-.01429	.00009	.00071	.01180	.23151
4.985	42.203	200.04000	-.04835	.00250	.23322	.00780	-.01375	-.00036	.00089	.01025	.23139
4.951	92.622	200.07000	-.02059	.00242	.20937	.01129	-.01439	-.00005	.00043	.00393	.23190
4.981	192.[illegible]	200.15000	-.30185	-.00277	.20334	.00927	-.01410	-.00016	.00071	.00461	.23207
4.994	292.10[illegible]	200.15000	-.17535	-.00114	.18287	-.00902	-.01332	-.00009	.00044	.00111	.23207
5.028	391.150	200.23000	.03916	.00310	.16850	.00867	-.01413	-.00024	.00053	-.00080	.23200
4.991	591.390	200.22000	.08155	.00442	.16262	.01131	-.01415	-.00041	.00099	.00267	.23252
	GRADIENT	28.69139	.22634	.00358	.03119	.01320	-.00206	.00001	.00010	.00170	.03341

V41B-09A (IA22),ORBITER(04RC1) 4/ET SEPARATING (SVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2691/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.015	625.400	-5.01400	-.00093	-.00182	.15361	-.03314	.04456	.00788	-.00149	.00366
-20.069	700.680	-5.01500	-.00107	-.00291	.02524	-.02807	.03679	.00709	-.00131	.00258
-20.015	799.660	-5.01200	-.00085	.00406	-.03749	-.02085	.03214	.01010	-.00150	.00067
-19.939	998.630	-4.99200	-.00119	.00694	-.15064	.00508	.03930	.00372	-.00078	.00062
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2702/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.981	474.400	-5.01100	-.00111	.00007	.11914	-.02841	.03088	.00680	-.00127	.00147
-15.020	499.940	-5.00800	-.00103	-.00009	.04259	-.02187	.03650	.00716	-.00129	.00146
-15.035	550.080	-5.00200	-.00088	-.00182	-.03491	-.01771	.03167	.00734	-.00139	.00094
-15.059	600.280	-5.00300	-.00093	-.00342	-.09382	-.01278	.02872	.00727	-.00137	.00073
-15.069	700.720	-4.99800	-.00110	-.00852	-.12716	.00197	.03072	.00401	-.00091	.00067
-14.950	799.250	-4.99800	-.00111	.00228	-.16077	.00837	.03131	.00351	-.00084	.00041
-15.009	999.300	-4.99800	-.00102	.00333	-.19372	.01195	.03334	.00315	-.00087	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2706/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.993	324.460	-4.99940	-.00083	.01201	.08812	-.01210	.03114	.00608	-.00132	.00122
-9.983	349.540	-4.99810	-.00097	.00797	.01755	-.00374	.03388	.00453	-.00114	.00159
-10.039	399.960	-5.00000	-.00082	.00225	-.04887	-.00784	.03728	.00437	-.00117	.00068
-10.037	449.900	-5.00000	-.00090	.00143	-.10767	-.00497	.03234	.00461	-.00118	.00032
-10.057	500.360	-4.99800	-.00089	.00232	-.14457	-.00107	.03100	.00385	-.00104	.00028
-10.058	600.490	-4.99100	-.00091	.00072	-.17349	.00257	.03165	.00325	-.00099	.00046
-10.039	699.720	-4.99000	-.00085	.00137	-.19208	.01022	.03266	.00330	-.00102	.00054
-9.927	799.490	-4.98940	-.00089	.00535	-.19392	.01168	.03283	.00334	-.00098	.00049
-10.013	999.370	-4.99000	-.00087	-.00278	-.19331	.01169	.03386	.00322	-.00099	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1059.6000 IN. XO		
LREF =	1200.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0123				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UNCLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2714/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.517	192.920	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.00333	-.00116	.00149
-5.514	240.240	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.00277	-.00068	.00079
-5.534	300.300	-4.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.00341	-.00105	.00051
-5.502	400.200	-4.[illegible]	-.[illegible]	.[illegible]	-.14463	.[illegible]	.[illegible]	.00320	-.00102	.00042
-5.543	500.220	-4.[illegible]	-.[illegible]	-.[illegible]	-.17004	.[illegible]	.[illegible]	.00308	-.00102	.00038
-5.503	593.580	-4.[illegible]	-.[illegible]	-.[illegible]	-.19067	.01097	.05137	.00284	-.00104	.00048
-5.459	680.720	-4.[illegible]	-.[illegible]	.[illegible]	-.13805	.01185	.03161	.00300	-.00106	.00046
-5.507	789.260	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.03162	.00281	-.00103	.00046
-5.513	819.200	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.01157	.03163	.00289	-.00104	.00045
	GRADIENT	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]

RUN NO. 2371/ 0 RN/L = .55 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.006	11.694	-4.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.05911	-.00389	-.00106	.00116
-.032	42.491	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.04073	.05427	-.00633	-.00095	.00088
-.016	92.396	-4.[illegible]	-.[illegible]	-.[illegible]	-.07742	.03155	.05276	-.00613	-.00098	.00103
-.039	142.130	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.04027	-.00576	-.00094	.00076
-.042	192.310	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.04773	-.00557	-.00082	.00029
-.038	242.340	-4.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.04705	-.00503	-.00108	.00044
-.023	342.000	-4.[illegible]	-.[illegible]	.[illegible]	-.15719	.01007	.04439	-.00327	-.00103	.00043
.012	491.630	-4.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.01110	.04006	-.00329	-.00113	.00035
.040	591.040	-4.[illegible]	-.[illegible]	.[illegible]	-.17118	.01208	.04743	-.00602	-.00122	.00059
.001	791.310	-4.[illegible]	-.[illegible]	.[illegible]	-.17177	.01212	.04748	-.00621	-.00122	.00039
-.000	931.340	-4.[illegible]	-.[illegible]	.[illegible]	-.17127	.01209	.04754	-.00603	-.00121	.00058
	GRADIENT	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]

RUN NO. 2377/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.025	-59.622	-4.[illegible]	-.[illegible]	.[illegible]	-.15509	.01721	.05343	-.00634	-.00139	.00041
4.979	6.929	-4.[illegible]	-.[illegible]	.[illegible]	-.11684	.03310	.05569	-.00691	-.00085	.00075
4.955	42.203	-4.[illegible]	-.[illegible]	.[illegible]	-.10647	.[illegible]	.05413	-.00638	-.00130	.00094
4.951	92.002	-4.[illegible]	-.[illegible]	.[illegible]	-.12344	.02224	.04769	-.00700	-.00099	.00048
4.961	192.350	-4.[illegible]	-.[illegible]	-.[illegible]	-.13023	.01523	.04631	-.00571	-.00110	.00075
4.994	292.100	-4.[illegible]	-.[illegible]	-.[illegible]	-.14753	.01094	.04509	-.00543	-.00123	.00049
5.029	391.150	-4.[illegible]	-.[illegible]	.[illegible]	-.15329	.01164	.04323	-.00574	-.00118	.00057
4.991	531.350	-4.[illegible]	-.[illegible]	.[illegible]	-.17142	.01229	.04673	-.00574	-.00135	.00103
	GRADIENT	-.71386	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2691/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.015	625.400	200.03000	-.05049	.21311	.15907	436.[1000	.00000	.00000	652.53000	.00000	.00000
-20.068	700.680	200.42000	-.15094	.01825	-.14512	437.51000	.00000	.00000	654.77000	.00000	.00000
-20.015	799.650	200.03000	.00228	.03303	-.05303	439.54000	.00000	.00000	658.31000	.00000	.00000
-19.939	993.690	199.60000	-.15483	.04351	-.04657	438.[1000	.00000	.00000	655.52000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2702/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.981	474.400	200.01000	-.14237	.16043	.08851	443.50000	.00000	.00000	663.73000	.00000	.00000
-15.020	499.940	200.11000	-.02771	.01313	-.16255	445.[0000	.00000	.00000	666.99000	00000	.00000
-15.035	550.090	200.23000	-.24948	.08850	-.06005	444.45000	.00000	.00000	665.15000	.00000	.00000
-15.059	600.220	200.49000	-.27207	.08271	-.01242	443.42000	.00000	.00000	663.62000	.00000	.00000
-15.069	700.720	200.33000	-.11975	.08041	-.[0008	444.77000	.00000	.00000	665.65000	.00000	.00000
-14.980	799.280	200.10000	.14026	.03503	-.03783	444.[3000	.00000	.00000	665.50000	.00000	.00000
-15.009	899.300	200.07000	.13009	.03278	-.07314	444.[1000	.00000	.00000	665.51000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2706/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.903	324.460	200.12000	.43350	-.[0000	-.12417	440.[2000	.00000	.00000	658.68000	.00000	.00000
-9.903	349.840	200.10000	.22082	.00424	-.[3334	439.[0000	.00000	.00000	658.42000	.00000	.00000
-10.039	399.990	200.20000	.65016	.00309	-.[0000	440.47000	.00000	.00000	657.71000	.00000	.00000
-10.037	449.990	200.30000	.03770	.03142	.[0207	440.[1000	.00000	.00000	659.18000	.00000	.00000
-10.057	500.350	200.51000	.03123	.01073	-.[0002	439.[4000	.00000	.00000	658.11000	.00000	.00000
-10.058	600.490	200.41000	-.01530	.02105	-.01016	438.97000	.00000	.00000	658.48000	.00000	.00000
-10.030	699.780	200.21000	.04085	.02437	-.01214	440.23000	.00000	.00000	658.53000	.00000	.00000
-9.927	799.490	200.03000	.22174	.02502	-.01831	440.27000	.00000	.00000	658.90000	.00000	.00000
-10.013	899.370	200.17000	-.32839	.02035	-.02147	439.[2000	.00000	.00000	658.23000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[0000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2714/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.517	159.920	200.13000	.39439	.01737	-.01230	435.[illegible]6000	.00000	.00000	651.43000	.00000	.00000
-5.514	249.850	200.13000	-.22385	.00285	-.05330	435.[illegible]4000	.00000	.00000	652.12000	.00000	.00000
-5.554	300.300	200.15000	-.57843	-.01250	-.05375	435.[illegible]0000	.00000	.00000	651.17000	.00000	.00000
-5.552	400.320	200.27000	.40009	-.00355	.00005	435.[illegible]8000	.00000	.00000	652.53000	.00000	.00000
-5.543	500.220	200.24000	-.31477	.01090	.02405	435.[illegible]1000	.00000	.00000	652.07000	.00000	.00000
-5.503	599.500	200.23000	-.18103	.01217	.01039	435.[illegible]1000	.00000	.00000	651.93000	.00000	.00000
-5.489	603.720	200.11000	-.03100	.01335	.01455	435.[illegible]1000	.00000	.00000	651.63000	.00000	.00000
-5.507	799.250	200.23000	.12012	.01520	.01221	35.[illegible]2000	.00000	.00000	651.93000	.00000	.00000
-5.513	819.200	200.10000	-.13030	.01675	.01065	435.[illegible]7000	.00000	.00000	651.71000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2371/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.006	11.894	200.12000	-.02647			442.[illegible]0000	.00000	.00000	662.18000	.00000	.00000
-.032	42.491	200.17000	.32818			442.[illegible]3000	.00000	.00000	662.28000	.00000	.00000
-.016	92.356	200.15000	-.45043			442.[illegible]8000	.00000	.00000	662.47000	.00000	.00000
-.029	142.130	200.20000	.[illegible]3			442.[illegible]8000	.00000	.00000	662.10000	.00000	.00000
-.042	192.510	200.15000	.65400			442.[illegible]3000	.00000	.00000	662.63000	.00000	.00000
-.039	292.340	200.12000	-.80217			442.[illegible]4000	.00000	.00000	662.75000	.00000	.00000
-.023	392.000	200.17000	.78[illegible]			442.[illegible]2000	.00000	.00000	662.[illegible]500	.00000	.00000
.012	491.880	200.21000	-.[illegible]5			442.[illegible]0000	.00000	.00000	662.[illegible]8000	.00000	.00000
.040	591.040	200.22000	.[illegible]3			442.[illegible]8000	.00000	.[illegible]000	662.57000	.00000	.00000
.001	791.310	200.21000	.27650			442.[illegible]4000	.00000	.00000	662.74000	.00000	.00000
-.000	931.340	200.15000	.13535			442.[illegible]8000	.00000	.00000	662.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2377/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.023	-59.602	200.30000	.48035			440.[illegible]0000	.00000	.00000	653.63000	.00000	.00000
4.979	6.929	200.20000	1.50340			440.[illegible]0	.00000	.00000	659.22000	.00000	.00000
4.955	42.203	200.04000	-.04003			440.[illegible]0000	.00000	.00000	659.00000	.00000	.00000
4.951	92.622	200.07000	-.02058			441.[illegible]0000	.00000	.00000	658.38000	.00000	.00000
4.961	192.330	200.16000	-.30108			441.[illegible]6000	.00000	.00000	658.83000	.00000	.00000
4.984	292.100	200.18000	-.17535			441.[illegible]1000	.00000	.00000	658.76000	.00000	.00000
5.028	391.150	200.23000	.02816			441.[illegible]4000	.00000	.00000	661.25000	.00000	.00000
4.991	591.330	200.22000	.02165			442.[illegible]8000	.00000	.00000	661.76000	.00000	.00000
	GRADIENT	26.69139	.22634			63.[illegible]0027	.00000	.00000	95.13522	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2691/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.015	625.400	978.90000	978.90000	83.00000	978.90000	981.73000	67.00000	72.00000	31.20300	99.64200
-20.068	700.680	979.36000	979.36000	83.00000	979.36000	981.73000	67.00000	72.00000	24.61500	99.64200
-20.015	799.660	982.62000	982.62000	83.00000	982.62000	981.73000	67.00000	72.00000	15.30600	99.64200
-19.939	958.890	981.92000	981.92000	83.00000	981.92000	981.73000	67.00000	72.00000	18.11800	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2702/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.981	474.400	975.13000	975.13000	87.00000	975.13000	974.10999	71.00000	81.00000	28.77400	99.51600
-15.020	499.940	975.01000	975.01000	87.00000	975.01000	974.10999	71.00000	81.00000	23.43700	99.51600
-15.035	550.090	974.77000	974.77000	87.00000	974.77000	974.10999	71.00000	81.00000	14.93700	99.51600
-15.059	600.280	974.97000	974.97000	87.00000	974.97000	974.10999	71.00000	81.00000	5.94690	99.51600
-15.069	700.720	974.93000	974.93000	87.00000	974.93000	974.10999	71.00000	81.00000	4.49140	99.51600
-14.950	799.250	974.79000	974.79000	87.00000	974.79000	974.10999	71.00000	81.00000	5.90020	99.51600
-15.009	899.300	974.31000	974.31000	87.00000	974.31000	974.10999	71.00000	81.00000	7.50100	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2706/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.983	324.460	975.79000	975.79000	86.00000	975.79000	975.18999	71.00000	79.00000	14.92900	99.39000
-9.993	349.540	975.59000	975.59000	86.00000	975.59000	975.18999	71.00000	79.00000	11.52300	99.39000
-10.039	399.560	975.50000	975.50000	86.00000	975.50000	975.18999	71.00000	79.00000	6.40630	99.39000
-10.037	449.900	975.71000	975.71000	86.00000	975.71000	975.18999	71.00000	79.00000	2.06790	99.39000
-10.057	500.360	975.61000	975.61000	86.00000	975.61000	975.18999	71.00000	79.00000	-.54421	99.39000
-10.058	600.490	975.63000	975.63000	86.00000	975.63000	975.18999	71.00000	79.00000	-.68856	99.39000
-10.030	699.780	975.71000	975.71000	86.00000	975.71000	975.18999	71.00000	79.00000	.26769	99.39000
-9.927	799.490	975.81000	975.81000	86.00000	975.81000	975.18999	71.00000	79.00000	1.71020	99.39000
-10.013	999.370	975.40000	975.40000	86.00000	975.40000	975.18999	71.00000	79.00000	3.63710	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK012) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1230.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2714/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.517	199.920	976.77000	976.77000	88.00000	976.77000	973.50000	72.00000	78.00000	6.15650	99.51600
-5.514	249.850	976.84000	976.84000	88.00000	976.84000	973.50000	72.00000	78.00000	5.42040	99.51600
-5.554	300.380	976.85000	976.85000	88.00000	976.85000	973.50000	72.00000	78.00000	1.54730	99.51600
-5.552	400.320	976.57000	976.57000	88.00000	976.57000	973.50000	72.00000	78.00000	-4.16520	99.51600
-5.543	500.220	976.77000	976.77000	88.00000	976.77000	973.50000	72.00000	78.00000	-4.36690	99.51600
-5.503	599.580	976.55000	976.55000	88.00000	976.55000	973.50000	72.00000	78.00000	-3.93830	99.51600
-5.459	698.720	976.58000	976.58000	88.00000	976.58000	973.50000	72.00000	78.00000	-3.07520	99.51600
-5.507	799.250	976.65000	976.65000	88.00000	976.65000	973.50000	72.00000	78.00000	-2.02580	99.51600
-5.513	819.280	976.71000	976.71000	88.00000	976.71000	973.50000	72.00000	78.00000	-1.04850	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2371/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.006	11.694	977.73000	977.73000	82.00000	977.73000	973.75999	67.00000	72.00000	-7.54010	99.76800
-.032	42.491	977.41000	977.41000	82.00000	977.41000	973.75999	67.00000	72.00000	-8.21890	99.76800
-.016	92.396	977.68000	977.68000	82.00000	977.68000	973.75999	67.00000	72.00000	-8.83950	99.76800
-.029	142.130	977.24000	977.24000	82.00000	977.24000	973.75999	67.00000	72.00000	-9.59180	99.76800
-.042	192.510	977.33000	977.33000	82.00000	977.33000	973.75999	67.00000	72.00000	-11.89600	99.76800
-.039	292.340	977.11000	977.11000	82.00000	977.11000	973.75999	67.00000	72.00000	-12.77600	99.76800
-.023	392.090	977.00000	977.00000	82.00000	977.00000	973.75999	67.00000	72.00000	-13.22600	99.76800
.012	491.630	976.44000	976.44000	82.00000	976.44000	973.75999	67.00000	72.00000	-12.93700	99.76800
.040	591.040	976.33000	976.33000	82.00000	976.33000	973.75999	67.00000	72.00000	-12.41300	99.76800
.001	791.310	976.12000	976.12000	82.00000	976.12000	973.75999	67.00000	72.00000	-12.05700	99.76800
-.000	931.340	975.99000	975.99000	82.00000	975.99000	973.75999	67.00000	72.00000	-11.64800	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2377/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.025	-59.682	978.32000	978.32000	84.00000	978.32000	973.82000	68.00000	75.00000	-13.44200	99.76800
4.979	6.929	978.74000	978.74000	84.00000	978.74000	973.82000	68.00000	75.00000	-14.02100	99.76800
4.955	42.203	979.00000	979.00000	84.00000	979.00000	973.82000	68.00000	75.00000	-14.24400	99.76800
4.951	92.622	979.35000	979.35000	84.00000	979.35000	973.82000	68.00000	75.00000	-14.64500	99.76800
4.951	192.330	979.63000	979.63000	84.00000	979.63000	973.82000	68.00000	75.00000	-14.81100	99.76800
4.984	292.100	979.55000	979.55000	84.00000	979.55000	973.82000	68.00000	75.00000	-14.35800	99.76800
5.028	391.150	979.73000	979.73000	84.00000	979.73000	973.82000	68.00000	75.00000	-14.35800	99.76800
4.991	591.390	980.05000	980.05000	84.00000	980.05000	973.82000	68.00000	75.00000	-13.93200	99.76800
	GRADIENT	141.24455	141.24455	12.12226	141.24455	141.40041	9.81326	10.82345	-2.02341	14.39778

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1328.7200	IN. XT
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YT
BREF =	1290.3000	INCHES	ZMRP =	416.4000	IN. ZT
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2691/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.015	625.400	200.05000	-.06549	-25.02800	-.00275	-.54161	-.03822	.02127	.00090	.00124	.11402
-20.068	700.680	200.42000	-.15084	-25.08300	-.00399	-.53185	-.03771	.02335	-.00066	.00117	.12091
-20.015	799.660	200.06000	.06028	-25.02700	.00321	-.57161	-.00479	.02488	-.00261	.00113	.13998
-19.939	998.890	199.80000	-.15483	-24.93100	.00575	-.61122	.05015	.02519	-.00499	.00133	.19037
	GRADIENT	.00000	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

RUN NO. 2702/ 0 RN/L = .85 GRADIENT NTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.981	474.400	200.01000	-.14237	-19.99200	-.00104	-.43609	-.02911	.01693	.00166	.00119	.12343
-15.020	499.940	200.11000	-.02771	-20.02800	-.00112	-.40139	-.04814	.01581	.00178	.00076	.10651
-15.035	550.090	200.23000	-.24948	-20.04300	-.00270	-.40101	-.04598	.01782	.00061	.00080	.11035
-15.059	600.280	200.45000	-.27207	-20.06500	-.00427	-.41127	-.03449	.01891	-.00008	.00082	.11503
-15.069	700.720	200.36000	-.11535	-20.06400	-.00172	-.44783	-.00333	.01907	-.00132	.00051	.13167
-14.950	799.250	200.10000	.14226	-19.94200	.00718	-.47195	.02339	.01660	-.00237	.00057	.15984
-15.009	999.300	200.07000	.13899	-19.99300	.00231	-.37865	-.01502	.01257	.00035	.00021	.12968
	GRADIENT	.00000	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

RUN NO. 2706/ 0 RN/L = .86 GRADIENT NTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.983	324.460	200.12000	.43660	-14.98100	.01118	-.35788	-.01001	.01895	-.00190	.00095	.12961
-9.988	349.540	200.18000	.29352	-14.98300	.00700	-.31101	-.03073	.01378	.00056	.00061	.11465
-10.039	399.860	200.23000	.53346	-15.03900	.00333	-.28134	-.04657	.01117	.00167	.00040	.10089
-10.037	449.900	200.23000	.05770	-15.03700	.00053	-.29198	-.03715	.01205	.00106	.00045	.10398
-10.057	500.360	200.36000	.09123	-15.05500	.00133	-.30134	-.02668	.01399	.00031	.00046	.10979
-10.058	600.490	200.41000	-.01660	-15.04900	-.00019	-.32197	-.00103	.01398	-.00049	.00030	.12139
-10.030	699.780	200.21000	.04825	-15.02000	.00051	-.34502	.02215	.01430	-.00141	.00025	.14166
-9.927	798.490	200.08000	.22174	-14.91600	.00876	-.31130	.01337	.01375	-.00174	.00045	.14327
-10.013	999.370	200.17000	-.32839	-15.00200	-.00365	-.21564	-.04019	.00947	.00109	.00001	.10688
	GRADIENT	.00001	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1329.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2714/ 0 RN/L = .87 GRADIENT NTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.517	199.920	200.13000	.39438	-10.49700	.00569	-.23[illegible]58	-.03043	.00539	.00174	.00018	.10591
-5.514	249.850	200.13000	-.28266	-10.49300	-.00076	-.22[illegible]41	-.03270	.01[illegible]26	.00068	.00020	.10118
-5.554	300.360	200.15000	-.57243	-10.54500	-.00819	-.20[illegible]03	-.03589	.00775	.00148	.00015	.09586
-5.552	400.320	200.27000	.49908	-10.54700	.00684	-.22[illegible]47	-.01890	.01023	.00048	.00018	.10325
-5.543	500.220	200.24000	-.31477	-10.53400	-.00520	-.23[illegible]97	.00097	.01155	-.00036	.00012	.11267
-5.503	599.580	200.20000	-.10486	-10.49200	-.00176	-.24[illegible]77	.01753	.01165	-.00111	.00003	.12697
-5.459	698.720	200.11000	-.03100	-10.44800	.00444	-.20[illegible]59	.00712	.01080	-.00108	.00022	.12534
-5.507	799.250	200.25000	.12012	-10.49600	.00260	-.14[illegible]82	-.02611	.00757	.00109	-.00012	.09747
-5.513	819.280	200.10000	-.13660	-10.50300	.00087	-.14[illegible]24	-.03019	.00712	.00108	-.00015	.09727
	GRADIENT	.00000	.00000	.00000	.00000	.000[illegible]00	.00000	.00000	.00000	.00000	.00000

RUN NO. 2371/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.006	11.694	200.12000	-.02647	-4.98680	-.00060	-.14[illegible]73	-.04409	.00065	-.00002	.00040	.09325
-.032	42.491	200.17000	.35918	-4.95990	.00939	-.15[illegible]13	-.03890	.01066	-.00179	.00033	.09545
-.016	92.396	200.15000	-.45843	-4.98120	-.00228	-.14[illegible]07	-.02686	.00708	-.00011	.00014	.09527
-.029	142.130	200.20000	.88088	-5.00460	.01557	-.13123	-.02802	.00132	.00140	.00025	.08883
-.042	192.510	200.19000	.83400	-5.02400	.01360	-.13168	-.02229	.00220	.00133	.00028	.08958
-.038	292.340	200.12000	-.59947	-5.02340	-.00743	-.13[illegible]65	-.00549	.00255	.00063	.00022	.09524
-.023	392.090	200.17000	.76338	-5.01160	.01100	-.14[illegible]01	.00249	.00315	.00020	.00016	.10336
.012	491.630	200.24000	-.00333	-4.97570	-.00028	-.13[illegible]05	.02012	.00335	-.00033	.00019	.11004
.040	591.040	200.20000	.60800	-4.94760	.01188	-.10[illegible]10	.00339	.00429	-.00061	.00028	.10718
.001	791.310	200.24000	.27750	-4.97350	.00359	-.08[illegible]40	-.01515	.00244	.00053	-.00002	.09169
-.000	931.340	200.15000	.13535	-4.98300	.00438	-.06[illegible]25	-.01519	.00256	.00052	-.00001	.09258
	GRADIENT	.00000	.00000	.00000	.00000	.000[illegible]00	.00000	.00000	.00000	.00000	.00000

RUN NO. 2377/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.025	-59.682	200.30000	.49825	.04270	.00382	-.03[illegible]05	-.31818	-.00295	-.00008	.00015	.08846
4.979	6.929	200.20000	1.58840	.01330	.02493	-.07[illegible]41	-.02083	.00214	.00031	.00010	.08911
4.955	42.203	200.04000	-.04995	-.00448	.00238	-.07[illegible]30	-.01595	.00411	.00032	.00011	.09019
4.961	92.622	200.07000	-.02059	-.02491	.00188	-.08[illegible]97	-.00996	.00333	.00059	.00016	.08993
4.984	192.330	200.16000	-.30166	-.02213	-.00329	-.07[illegible]01	.00627	.00340	.00052	.00014	.09366
5.028	391.150	200.26000	.06916	.04051	.00261	-.06[illegible]38	.02816	.00382	-.00015	.00012	.10485
4.991	591.390	200.22000	.08155	.00379	.00413	-.00[illegible]12	.00119	.00300	-.00001	-.00003	.08821
	GRADIENT	28.89139	.22634	.00192	.00360	-.01[illegible]45	-.00301	.00031	.00004	.00001	.01286

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.6000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2692/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.045	625.460	400.30000	.00209	-.00082	.34499	-.04149	.00169	-.00062	.00158	-.01043	.23442
-20.020	700.100	400.03000	.10704	.00741	.23729	-.02239	-.00049	-.00006	.00083	-.01094	.23451
-19.969	798.970	399.70000	.10439	.00541	.19519	-.00794	-.00306	.00015	.00079	-.00560	.23359
-20.016	899.790	400.21000	-.03271	.00149	.14974	-.00065	-.00359	.00015	.00053	-.00304	.23474
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2703/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.027	475.020	400.14000	.30016	.00773	.34532	-.03477	-.00144	-.00007	.00114	-.01500	.23024
-15.059	500.230	400.08000	-.39035	-.00082	.27874	-.02239	-.00122	-.00025	.00070	-.01167	.22972
-15.015	549.540	400.01000	-.19301	.00419	.21853	-.01629	-.00140	-.00016	.00042	-.01511	.22976
-15.000	599.370	399.94000	-.00959	.00121	.20085	-.01238	-.00312	.00003	.00051	-.01402	.22976
-14.999	698.910	399.90000	.32283	.00838	.15501	-.00131	-.00402	.00004	.00039	-.01175	.22984
-14.953	798.440	399.93000	.14181	.00671	.14255	.00040	-.00299	.00002	.00047	-.01053	.23006
-14.955	899.210	399.75000	-.18510	.00401	.14066	.00032	-.00380	.00001	.00045	-.01042	.22952
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2707/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.060	325.730	400.20000	.10115	.00017	.35054	-.01674	-.00330	-.00014	.00118	-.00932	.22979
-10.008	349.210	400.00000	-.11972	-.00026	.32456	-.02105	-.00331	-.00013	.00118	-.00738	.23039
-10.058	399.760	400.13000	-.00200	.00246	.24375	-.01757	-.00254	-.00019	.00069	-.01050	.22999
-10.009	449.230	400.03000	.28028	.00303	.18798	-.01216	-.00242	-.00027	.00018	-.01333	.23014
-9.995	499.170	400.10000	.01774	.00169	.17431	-.00831	-.00339	-.00005	.00040	-.01332	.22997
-9.971	599.750	400.04000	-.05204	.00390	.14548	-.00036	-.00395	-.00007	.00046	-.01184	.23020
-9.953	699.600	400.11000	.34033	.00040	.13706	.00073	-.00393	-.00008	.00044	-.01135	.23053
-9.974	799.610	400.02000	.27915	.00756	.13703	.00073	-.00406	-.00006	.00042	-.01126	.22948
-10.092	1000.000	400.26000	-.03080	-.00392	.13579	.00071	-.00400	-.00009	.00042	-.01115	.22985
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK013) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2715/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.542	200.500	400.15000	.35870	.01077	.28530	.00574	-.00461	.00013	.00039	-.01152	.22948
-5.490	248.890	400.11000	.47591	.00495	.28076	-.00370	-.00354	-.00021	.00066	-.00901	.23002
-5.517	299.190	400.06000	.04891	.00012	.25273	-.01239	-.00352	-.00019	.00062	-.00717	.22975
-5.494	398.780	400.09000	.08339	.00446	.16895	-.00630	-.00436	-.00010	.00036	-.01312	.22993
-5.470	498.610	400.09000	.25615	.00692	.14726	-.00114	-.00421	-.00010	.00041	-.01280	.23001
-5.470	598.510	400.07000	.00344	.00271	.13548	.00071	-.00422	-.00011	.00042	-.01181	.22975
-5.479	698.730	400.13000	.24022	.00615	.13513	.00073	-.00419	-.00012	.00040	-.01163	.22995
-5.531	799.280	400.14000	.06199	.00155	.13565	.00039	-.00423	-.00012	.00042	-.01185	.22976
-5.520	819.370	400.24000	.11797	.00294	.13564	.00072	-.00419	-.00012	.00042	-.01178	.23011
	GRADIENT	.00000	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

RUN NO. 2372/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
.002	23.622	400.19000	-.24403	-.00063	.27120	.03116	-.01242	-.00036	.00082	.00793	.23070
.020	41.133	400.15000	.06078	-.00070	.26268	.02731	-.01363	-.00015	.00106	.00449	.23033
.045	90.546	400.21000	-.22284	.00317	.24949	.01618	-.01451	.00003	.00088	.00032	.23067
.021	141.180	400.15000	.40791	.00558	.25751	.00760	-.01462	.00008	.00059	.00365	.23109
-.002	191.450	400.13000	-.09162	-.00546	.24157	.00212	-.01284	-.00027	.00013	-.00047	.23036
.033	290.640	400.23000	-.40624	-.00632	.19785	-.00173	-.01385	-.00030	.00061	.00063	.23015
.046	390.550	400.16000	.03607	.00589	.17003	-.00032	-.01391	-.00023	.00044	-.00164	.22992
.040	490.720	400.27000	.47550	.01008	.16484	.00039	-.01388	-.00042	.00100	.00205	.23081
.017	590.900	400.19000	-.13514	.00133	.16103	.00189	-.01385	-.00041	.00100	.00227	.23060
-.047	791.840	400.30000	-.26148	-.00177	.16053	.00137	-.01390	-.00041	.00100	.00239	.23076
.001	931.280	400.22000	-.11629	-.00030	.16056	.00130	-.01379	-.00039	.00099	.00233	.23112
	GRADIENT	.00000	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
4.986	-58.364	400.22000	-.17358	.00107	.24597	.03349	-.01247	-.00033	.00006	.01562	.23107
5.056	4.985	400.25000	.20227	.00503	.23521	.02451	-.01536	-.00017	.00103	.00541	.23136
5.010	41.006	400.03000	.17128	.00537	.22651	.01738	-.01576	-.00012	.00083	.00309	.23112
5.008	90.992	400.21000	.00858	.00231	.22575	.00882	-.01544	-.00007	.00057	.00376	.23082
5.023	190.660	400.26000	-.20165	-.00453	.20524	.00259	-.01419	-.00041	.00041	.00199	.23080
5.038	290.470	400.31000	-.26330	.00019	.17852	.00029	-.01460	-.00041	.00046	.00059	.23066
5.026	390.580	400.36000	-.16535	-.00159	.17013	.00014	-.01484	-.00049	.00096	.00241	.23070
4.999	590.860	400.32000	.03288	.00376	.16255	.00204	-.01476	-.00055	.00104	.00382	.23010
	GRADIENT	.00000	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2692/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.045	625.460	-5.01700	-.00088	-.00082	.01602	-.03068	.03296	.00898	-.00155	.00162
-20.020	700.100	-5.00600	-.00123	.00741	-.09171	-.01228	.03246	.00680	-.00099	.00087
-19.969	798.970	-4.99400	-.00122	.00541	-.13481	00290	.03792	.00425	-.00078	.00083
-20.016	999.790	-4.99000	-.00112	.00149	-.17946	01016	.04038	.00370	-.00078	.00057
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	00000	.00000

RUN NO. 2703/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.027	475.020	-5.01100	-.00133	.00773	.00974	-.02375	.02926	.00600	-.00102	.00118
-15.058	500.230	-5.00500	-.00101	-.00652	-.05575	-.01269	.03245	.00619	-.00119	.00074
-15.015	549.540	-5.00200	-.00104	.00419	-.11661	-.00727	.02909	.00603	-.00110	.00047
-15.000	599.370	-4.99300	-.00114	.00121	-.13419	-.00137	.03016	.00430	-.00092	.00056
-14.969	698.910	-4.99000	-.00101	.00838	-.17686	.00919	.03238	.00340	-.00090	.00044
-14.953	798.440	-4.99300	-.00095	.00871	-.19168	.01139	.03357	.00342	-.00093	.00051
-14.955	998.210	-4.99900	-.00095	.00401	-.19423	.01182	.03375	.00362	-.00094	.00050
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2707/ 0 RN/L = .8[illegible] GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.060	325.730	-4.99700	-.00100	.00017	.01659	-.00783	.03446	.00405	-.00108	.00122
-10.008	349.210	-5.00000	-.00106	-.00026	-.00768	-.01013	.03644	.00405	-.00107	.00123
-10.058	399.760	-5.00100	-.00097	.00246	-.08763	-.00668	.03321	.00480	-.00113	.00074
-10.009	449.230	-4.99900	-.00084	.00388	-.14311	-.00158	.03033	.00492	-.00120	.00022
-9.996	499.170	-4.99460	-.00098	.00169	-.15593	.00407	.03036	.00365	-.00098	.00045
-9.971	598.750	-4.98830	-.00089	.00390	-.18591	.01022	.03185	.00339	-.00100	.00050
-9.963	699.600	-4.98910	-.00095	.00840	-.19400	.01161	.03231	.00338	-.00101	.00048
-9.974	798.610	-4.99550	-.00087	.00756	-.19382	.01161	.03237	.00327	-.00099	.00047
-10.092	1000.000	-4.98900	-.00084	-.00392	-.19394	.01158	.03247	.00332	-.00102	.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1' W/ET SEPARATING (SVK013) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2715/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.542	200.500	-4.97790	-.00097	.01077	-.04353	.01654	.03185	.00268	-.00079	.00043
-5.490	248.890	-4.98810	-.00075	.00495	-.04645	.00712	.03441	.00376	-.00113	.00070
-5.517	299.190	-4.98540	-.00089	.00012	-.07657	-.00207	.03626	.00378	-.00112	.00066
-5.494	398.780	-4.98450	-.00091	.00446	-.16009	.00391	.03028	.00293	-.00103	.00041
-5.470	498.610	-4.99000	-.00085	.00692	-.18187	.00938	.03061	.00308	-.00103	.00045
-5.470	598.510	-4.98630	-.00081	.00271	-.19350	.01152	.03158	.00307	-.00104	.00046
-5.479	698.730	-4.98080	-.00080	.00615	-.19374	.01153	.03175	.00310	-.00105	.00045
-5.531	799.280	-4.98630	-.00081	.00155	-.19350	.01150	.03156	.00306	-.00104	.00046
-5.520	819.370	-4.98360	-.00081	.00294	-.19348	.01154	.03163	.00310	-.00104	.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2372/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.002	23.622	-4.95539	.00005	-.00063	-.06107	.04208	.05175	-.00506	-.00130	.00086
.020	41.133	-4.95971	-.00020	-.00070	-.05952	.03882	.04831	-.00626	-.00109	.00110
.045	90.546	-4.96630	-.00054	.00317	-.08277	.02740	.04414	-.00715	-.00091	.00093
.021	141.180	-4.97734	-.00072	.00358	-.07470	.01851	.04746	-.00726	-.00085	.00064
-.002	191.450	-4.97239	-.00043	-.00545	-.09034	.01373	.04333	-.00548	-.00121	.00017
.033	290.640	-4.97036	-.00045	-.00532	-.13402	.00917	.04440	-.00650	-.00123	.00065
.046	390.550	-4.97348	-.00051	.00569	-.16175	.01058	.04211	-.00656	-.00117	.00049
.040	490.720	-4.98786	-.00030	.01008	-.16701	.01159	.04531	-.00653	-.00135	.00104
.017	590.900	-4.98751	-.00030	.00133	-.17039	.01218	.04599	-.00651	-.00134	.00105
-.047	791.840	-4.98751	-.00029	-.00177	-.17046	.01215	.04605	-.00657	-.00135	.00104
.001	931.280	-4.98746	-.00032	-.00030	-.17053	.01218	.04600	-.00645	-.00132	.00104
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.986	-58.364	-4.95389	.00005	.00107	-.08546	.04488	.05933	-.00513	-.00127	.00011
5.056	4.985	-4.96291	-.00020	.00503	-.09498	.03540	.05009	-.00602	-.00111	.00108
5.010	41.006	-4.96980	-.00035	.00537	-.10443	.02825	.04674	-.00842	-.00105	.00087
5.008	90.992	-4.97821	-.00053	.00231	-.10496	.01899	.04738	-.00811	-.00100	.00061
5.023	190.660	-4.98421	-.00026	-.00453	-.12512	.01344	.04556	-.00687	-.00134	.00046
5.036	290.470	-4.98759	-.00029	.00019	-.15174	.01115	.04415	-.00728	-.00134	.00051
5.026	390.590	-4.98743	-.00019	-.00159	-.15998	.01168	.04593	-.00753	-.00142	.00100
4.999	590.860	-4.98674	-.00011	.00376	-.16714	.01287	.04730	-.00745	-.00148	.00109
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2692/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.045	625.460	400.30000	.00209	.00171	-.15257	435.46000	.00000	.00000	651.70000	.00000	.00000
-20.020	700.100	400.03000	.17604	.05350	-.06391	435.50000	.00000	.00000	651.76000	.00000	.00000
-19.969	798.970	399.70000	.10439	.04523	-.07758	436.31000	.00000	.00000	653.72000	.00000	.00000
-20.016	999.790	400.21000	-.03271	.05463	-.05804	435.77000	.00000	.00000	652.16000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2703/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.027	475.020	400.14000	.30016	-.02120	-.15082	444.21000	.00000	.00000	664.79000	.00000	.00000
-15.058	500.230	400.09000	-.39035	.03171	-.08494	442.77000	.00000	.00000	662.65000	.00000	.00000
-15.015	549.540	400.01000	-.19301	.04811	-.03357	443.70000	.00000	.00000	664.03000	.00000	.00000
-15.000	599.370	399.94000	-.00959	.04012	-.06379	443.46000	.00000	.00000	663.71000	.00000	.00000
-14.969	698.910	399.90000	.32293	.04930	-.06940	443.30000	.00000	.00000	662.98000	.00000	.00000
-14.953	798.440	399.93000	.14181	.05054	-.08036	442.83000	.00000	.00000	662.51000	.00000	.00000
-14.955	998.210	399.75000	-.16310	.04575	-.06231	443.29000	.00000	.00000	663.42000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2707/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.060	325.730	400.20000	.10115	.01310	-.09867	439.40000	.00000	.00000	657.60000	.00000	.00000
-10.008	349.210	400.00000	-.11972	.00929	-.09404	439.30000	.00000	.00000	658.19000	.00000	.00000
-10.058	399.760	400.13000	-.00260	.05097	-.02002	439.35000	.00000	.00000	656.49000	.00000	.00000
-10.009	449.230	400.08000	.26383	.03946	-.02434	438.27000	.00000	.00000	655.91000	.00000	.00000
-9.986	499.170	400.10000	.01774	.03894	-.03015	438.46000	.00000	.00000	656.19000	.00000	.00000
-9.971	598.750	400.04000	-.05284	.03848	-.02725	438.32000	.00000	.00000	656.29000	.00000	.00000
-9.963	698.600	400.11000	.34993	.03314	-.02367	438.22000	.00000	.00000	655.83000	.00000	.00000
-9.974	798.610	400.02000	.27915	.02950	-.01777	437.35000	.00000	.00000	655.42000	.00000	.00000
-10.092	1000.000	400.28000	-.03080	.02594	-.01369	437.78000	.00000	.00000	655.18000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVKD13) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2715/ 0 RN/L = .87 GRADIEN INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.542	200.500	400.15000	.35870	.00711	-.01225	435.27000	.00000	.00000	651.43000	.00000	.00000
-5.490	248.890	400.11000	47591	-.00139	-.03153	435.77000	.00000	.00000	652.16000	.00000	.00000
-5.517	299.190	400.08000	.04891	.00370	-.02780	435.30000	.00000	.00000	652.36000	.00000	.00000
-5.494	393.780	400.09000	.08339	.02792	.00397	435.55000	.00000	.00000	651.83000	.00000	.00000
-5.470	498.610	400.09000	.25615	.02497	.00601	435.58000	.00000	.00000	652.03000	.00000	.00000
-5.470	598.510	400.07000	.00344	.02157	.00655	435.57000	.00000	.00000	651.72000	.00000	.00000
-5.479	698.730	400.13000	.24022	.01910	.00918	435.52000	.00000	.00000	651.50000	.00000	.00000
-5.531	799.280	400.14000	.06159	.01698	.01109	435.70000	.00000	.00000	652.06000	.00000	.00000
-5.520	819.370	400.24000	.11797	.01538	.01256	435.65000	.00000	.00000	651.99000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.70000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2372/ 0 RN/L = .86 GRADIEN INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
.002	23.622	400.19000	-.24403			439.12000	.00000	.00000	658.23000	.00000	.00000
.020	41.133	400.15000	.06078			439.17000	.00000	.00000	658.30000	.00000	.00000
.045	90.546	400.21000	-.22694			439.12000	.00000	.00000	658.23000	.00000	.00000
.021	141.180	400.15000	.40791			439.75000	.00000	.00000	658.12000	.00000	.00000
-.002	191.450	400.13000	-.09162			439.21000	.00000	.00000	657.92000	.00000	.00000
.033	290.640	400.23000	-.40824			439.80000	.00000	.00000	657.45000	.00000	.00000
.046	390.550	400.16000	.03307			439.48000	.00000	.00000	657.27000	.00000	.00000
.040	490.720	400.27000	.47550			439.86000	.00000	.00000	657.39000	.00000	.00000
.017	590.900	400.19000	-.13514			438.70000	.00000	.00000	656.55000	.00000	.00000
-.047	791.840	400.30000	-.26148			438.36000	.00000	.00000	655.89000	.00000	.00000
.001	931.280	400.22000	-.11629			438.17000	.00000	.00000	655.90000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .86 GRADIEN INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.986	-59.364	400.22000	-.17358			438.70000	.00000	.00000	656.55000	.00000	.00000
5.056	4.985	400.25000	.20227			438.89000	.00000	.00000	656.09000	.00000	.00000
5.010	41.006	400.08000	.17128			438.37000	.00000	.00000	655.61000	.00000	.00000
5.008	90.992	400.21000	.00858			437.75000	.00000	.00000	655.13000	.00000	.00000
5.023	190.650	400.26000	-.20165			437.45000	.00000	.00000	654.45000	.00000	.00000
5.036	290.470	400.31000	-.26330			437.16000	.00000	.00000	654.25000	.00000	.00000
5.026	390.520	400.35000	-.16535			436.84000	.00000	.00000	653.76000	.00000	.00000
4.999	590.850	400.32000	.03228			436.41000	.00000	.00000	653.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK013) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2692/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.045	625.460	979.09000	979.09000	84.00000	979.09000	978.89999	67.00000	72.00000	41.01200	99.64200
-20.020	700.100	979.19000	979.19000	84.00000	979.19000	978.89999	67.00000	72.00000	37.19500	99.64200
-19.969	798.970	979.24000	979.24000	84.00000	979.24000	978.89999	67.00000	72.00000	29.17600	99.64200
-20.016	999.790	979.31000	979.31000	84.00000	979.31000	978.89999	67.00000	72.00000	13.27100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2703/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.027	475.020	975.22000	975.22000	87.00000	975.22000	975.03000	71.00000	80.00000	38.25900	99.51600
-15.058	500.230	975.01000	975.01000	87.00000	975.01000	975.03000	71.00000	80.00000	39.86900	99.51600
-15.015	549.540	975.08000	975.08000	87.00000	975.03000	975.03000	71.00000	80.00000	38.10100	99.51600
-15.000	599.370	975.10000	975.10000	87.00000	975.10000	975.03000	71.00000	80.00000	32.76200	99.51600
-14.969	698.910	975.01000	975.01000	87.00000	975.01000	975.03000	71.00000	80.00000	24.41900	99.51600
-14.953	798.440	975.30000	975.30000	87.00000	975.30000	975.03000	71.00000	80.00000	17.68000	99.51600
-14.955	998.210	975.16000	975.16000	87.00000	975.16000	975.03000	71.00000	80.00000	12.12900	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2707/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.060	325.730	975.34000	975.34000	86.00000	975.34000	975.13000	71.00000	79.00000	19.91100	99.51600
-10.008	349.210	975.74000	975.74000	86.00000	975.74000	975.13000	71.00000	79.00000	21.27300	99.51600
-10.058	399.760	975.62000	975.62000	86.00000	975.62000	975.13000	71.00000	79.00000	22.48500	99.51600
-10.009	449.230	975.74000	975.74000	86.00000	975.74000	975.13000	71.00000	79.00000	21.57000	99.51600
-9.996	499.170	975.67000	975.67000	86.00000	975.67000	975.13000	71.00000	79.00000	18.27700	99.51600
-9.971	599.750	975.82000	975.82000	86.00000	975.82000	975.13000	71.00000	79.00000	13.62000	99.51600
-9.953	698.600	975.62000	975.62000	86.00000	975.62000	975.13000	71.00000	79.00000	10.24900	99.51600
-9.974	798.610	975.50000	975.50000	86.00000	975.50000	975.13000	71.00000	79.00000	7.70800	99.51600
-10.092	1000.000	975.62000	975.62000	86.00000	975.62000	975.13000	71.00000	79.00000	4.78570	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK013) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2715/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.542	200.500	976.76000	976.76000	88.00000	976.76000	976.53999	72.00000	79.00000	1.18850	99.51600
-5.490	249.890	976.90000	976.90000	88.00000	976.90000	976.53999	72.00000	79.00000	1.09080	99.51600
-5.517	299.190	976.71000	976.71000	88.00000	976.71000	976.53999	72.00000	79.00000	5.17710	99.51600
-5.484	359.760	976.60000	976.60000	88.00000	976.60000	976.53999	72.00000	79.00000	7.83420	99.51600
-5.470	459.610	976.70000	976.70000	88.00000	976.70000	976.53999	72.00000	79.00000	6.63360	99.51600
-5.470	559.510	976.72000	976.72000	89.00000	976.72000	976.53999	72.00000	79.00000	4.55200	99.51600
-5.479	659.730	976.87000	976.87000	89.00000	976.87000	976.53999	72.00000	79.00000	2.45290	99.51600
-5.531	799.260	976.76000	976.76000	88.00000	976.76000	976.53999	72.00000	79.00000	.50199	99.51600
-5.520	819.370	976.64000	976.64000	88.00000	976.64000	976.53999	72.00000	79.00000	-.75593	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2372/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.002	23.622	976.28000	976.28000	84.00000	976.28000	976.06000	68.00000	74.00000	-10.19000	99.76800
.020	41.133	976.38000	976.38000	84.00000	976.38000	976.06000	68.00000	74.00000	-11.09800	99.76800
.045	80.547	976.28000	976.28000	84.00000	976.28000	976.06000	68.00000	74.00000	-13.53600	99.76800
.021	141.18	976.60000	976.60000	84.00000	976.60000	976.06000	68.00000	74.00000	-16.14000	99.76800
-.002	191.450	976.30000	976.30000	84.00000	976.30000	976.06000	68.00000	74.00000	-15.86100	99.76800
.033	280.640	976.09000	976.09000	84.00000	976.09000	976.06000	68.00000	74.00000	-13.61800	99.76800
.046	390.550	975.83000	975.83000	84.00000	975.83000	976.06000	68.00000	74.00000	-12.33000	99.76800
.040	490.720	976.49000	976.49000	84.00000	976.49000	976.06000	68.00000	74.00000	-11.63100	99.76800
.017	590.900	976.22000	976.22000	84.00000	976.22000	976.06000	68.00000	74.00000	-11.65600	99.76800
-.047	791.840	976.20000	976.20000	84.00000	976.20000	976.06000	68.00000	74.00000	-12.21000	99.76800
.001	931.280	976.22000	976.22000	84.00000	976.22000	976.06000	68.00000	74.00000	-12.71200	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.986	-58.384	977.19000	977.19000	84.00000	977.19000	976.99999	68.00000	75.00000	-10.62700	99.76800
5.056	4.585	976.99000	976.99000	84.00000	976.99000	976.99999	68.00000	75.00000	-11.49000	99.76800
5.010	41.005	976.75000	976.75000	84.00000	976.75000	976.99999	68.00000	75.00000	-12.69200	99.76800
5.008	90.992	976.52000	976.52000	84.00000	976.52000	976.99999	68.00000	75.00000	-13.52200	99.76800
5.023	190.660	975.99000	975.99000	84.00000	975.99000	976.99999	68.00000	75.00000	-12.43600	99.76800
5.036	290.470	975.69000	975.69000	84.00000	975.69000	976.99999	68.00000	75.00000	-11.73000	99.76800
5.026	390.580	975.45000	975.45000	84.00000	975.45000	976.99999	68.00000	75.00000	-11.60300	99.76800
4.999	590.860	974.99000	974.99000	84.00000	974.99000	976.99999	68.00000	75.00000	-11.47300	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2692/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.045	625.460	400.30000	.0209	-25.06200	-.00170	-.53414	-.05889	.01977	.00210	.00107	.11737
-20.020	700.100	400.03000	.17604	-25.02600	.00613	-.51912	-.05944	.02156	.00068	.00121	.11858
-19.969	798.970	399.70000	.10439	-24.96300	.00418	-.53262	-.02965	.02270	-.00096	.00114	.12994
-20.016	999.790	400.21000	-.03271	-25.00600	.00037	-.62344	.03819	.02237	-.00308	.00108	.17489
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2703/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.027	475.020	400.14000	.30016	-20.03800	.00640	-.41099	-.03620	.02037	.00064	.00116	.12377
-15.058	500.230	400.09000	-.39035	-20.06300	-.00753	-.33718	-.06021	.01606	.00302	.00072	.10642
-15.015	549.540	400.01000	-.19301	-20.01700	.00315	-.33769	-.06239	.01855	.00087	.00065	.10752
-15.000	599.370	399.94000	-.00959	-19.99800	.00007	-.41105	-.05150	.01728	.00127	.00072	.11225
-14.969	698.910	399.90000	.32293	-19.95900	.00738	-.42510	-.02689	.01761	-.00010	.00072	.12149
-14.953	798.440	399.93000	.14181	-19.94200	.00575	-.45331	.00361	.01837	-.00149	.00050	.13750
-14.955	958.210	399.75000	-.18610	-19.94400	.00306	-.44656	.02566	.01892	-.00338	.00084	.16455
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2707/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.060	325.730	400.20000	.1015	-15.05700	-.00083	-.33590	-.02777	.01341	.00006	.00093	.12952
-10.008	349.210	400.00000	-.11972	-15.00800	-.00131	-.33268	-.02796	.01166	.00106	.00070	.12075
-10.058	399.760	400.13000	-.00200	-15.05200	.00149	-.23157	-.05513	.01551	.00059	.00047	.09847
-10.009	449.230	400.08000	.29328	-15.00800	.00304	-.23539	-.05399	.01280	.00128	.00039	.10001
-9.996	499.170	400.10000	.01774	-14.99100	.00091	-.21231	-.04380	.01017	.00171	.00041	.10541
-9.971	598.750	400.04000	-.05284	-14.95100	.00303	-.31331	-.02087	.01330	.00007	.00039	.11448
-9.963	698.600	400.11000	.34993	-14.95200	.00755	-.35136	.00357	.01344	-.00071	.00021	.12647
-9.974	798.610	400.02000	.27915	-14.96300	.00869	-.31993	.02125	.01316	-.00165	.00026	.14350
-10.092	1000.000	400.26000	-.03080	-15.08100	-.00476	-.23143	-.03181	.00847	.00122	-.00001	.10444
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D8A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK013) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2715/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.542	200.500	400.15000	.35870	-10.52000	.00980	-.2[illegible]061	-.03623	.01031	-.00000	.00012	.11140
-5.490	248.890	400.11000	.47591	-10.47600	.00420	-.2[illegible]661	-.03155	.00864	.00112	.00020	.11181
-5.517	299.190	400.06000	.04891	-10.51300	-.00077	-.2[illegible]910	-.04181	.00736	.00245	.00031	.10122
-5.494	398.780	400.09000	.08339	-10.48900	.00355	-.2 209	-.03831	.00801	.00194	.00023	.09641
-5.470	498.610	400.09000	.25515	-10.46000	.00507	-.2[illegible]430	-.01605	.00599	.00052	.00012	.10705
-5.470	598.510	400.07000	.00344	-10.45900	.00190	-.2[illegible]465	.00359	.01107	-.00053	.00004	.[illegible]922
-5.479	698.730	400.13000	.24022	-10.46800	.00535	-.2[illegible]512	.01575	.01077	-.00102	.00004	.1[illegible]6.37
-5.531	799.280	400.14000	.06199	-10.52100	.00075	-.1[illegible]486	-.00001	.01008	-.00051	.00014	.11891
-5.520	819.370	400.24000	.11797	-10.50900	.00213	-.1[illegible]078	-.00783	.00890	-.00003	.00004	.11371
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2372/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.002	23.622	400.19000	-.24403	-4.95330	-.00058	-.1[illegible]418	-.05363	.01185	-.00212	.00025	.10623
.020	41.133	400.15000	.08078	-4.93220	-.00091	-.1[illegible]939	-.04748	.00412	.00030	.00024	.10328
.045	90.546	400.21000	-.22884	-4.98420	.00263	-.1[illegible]775	-.03243	.00804	-.00131	.00000	.10447
.021	141.180	400.15000	.40791	-4.96520	.00586	-.1[illegible]626	-.02719	.00827	-.00268	.00001	.10077
-.002	191.450	400.13000	-.09162	-4.98120	-.00589	-.1[illegible]018	-.03330	.00494	.00026	.00020	.09530
.033	290.640	400.23000	-.40624	-4.95580	-.00677	-.1[illegible]838	-.02374	.00153	.00187	.00035	.09349
.046	390.550	400.16000	.03507	-4.94290	.00538	-.1[illegible]509	-.00501	.00325	.00074	.00019	.09856
.040	490.720	400.27000	.47850	-4.94810	.00978	-.1[illegible]857	.01053	.00573	-.00005	.00012	.10660
.017	590.900	400.19000	-.13514	-4.97050	.00103	-.1[illegible]120	.01778	.00409	-.00029	.00021	.11028
-.047	791.840	400.30000	-.26148	-5.03460	-.00206	-.0[illegible]385	-.01532	.00253	.00045	-.00002	.08958
.001	931.280	400.22000	-.11629	-4.98550	-.00062	-.0[illegible]274	-.01526	.00257	.00046	-.00002	.09341
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.986	-58.364	400.22000	-.17358	.03231	.00112	-.0[illegible]570	-.04608	.00402	-.00077	.00011	.10653
5.056	4.985	400.25000	.20227	.09259	.00483	-.0[illegible]419	-.02301	.00482	-.00108	-.00000	.10078
5.010	41.006	400.08000	.17128	.04030	.00502	-.0[illegible]427	-.02064	.00500	-.00162	-.00003	.09615
5.008	90.992	400.21000	.00858	.02549	.00178	-.0[illegible]305	-.02011	.00431	-.00119	.00003	.09143
5.023	190.660	400.26000	-.20165	.03979	-.00479	-.0[illegible]715	-.01159	.00327	.00072	.00021	.09451
5.036	290.470	400.31000	-.26330	.04651	-.00010	-.0[illegible]904	.00548	.00429	.00039	.00015	.09501
5.026	390.580	400.36000	-.16535	.03877	-.00179	-.0[illegible]717	.01985	.00222	.00038	.00004	.10080
4.999	590.860	400.32000	.03288	.01183	.00385	-.0[illegible]432	.01177	.00310	-.00009	-.00003	.09439
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.008	625.100	600.09000	-.28513	-.00436	.23875	-.02161	-.00085	-.00011	.00070	-.00983	.23402
-20.025	700.260	600.10000	-.13942	.00010	.20109	-.00591	-.00312	.00010	.00093	-.00634	.23414
-20.008	799.510	600.11000	.06581	.00431	.15637	-.00134	-.00384	.00016	.00050	-.00415	.23426
-20.062	1000.500	600.30000	-.33250	-.00352	.13982	.00122	-.00358	.00011	.00056	-.00222	.23418
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-14.999	474.620	600.16000	.19896	.00405	.25488	-.02107	-.00161	-.00026	.00052	-.01178	.23000
-15.000	499.800	600.13000	-.01587	-.00004	.22701	-.01875	-.00143	-.00026	.00052	-.01384	.22982
-15.024	549.830	600.19000	.22163	.00296	.19319	-.01238	-.00316	-.00003	.00046	-.01369	.23024
-15.039	600.100	600.21000	-.25332	-.00030	.17462	-.00530	-.00361	-.00000	.00047	-.01217	.22980
-15.065	700.400	600.43000	-.03158	-.00083	.14691	-.00038	-.00406	.00001	.00049	-.01066	.22948
-15.008	799.460	600.12000	.30382	.00825	.11011	.00083	-.00410	-.00000	.00045	-.01031	.23003
-15.008	999.790	600.13000	-.09235	-.00082	.14072	.00078	-.00410	.00003	.00045	-.01028	.22976
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2708/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.027	324.950	600.21000	-.05119	.00255	.29270	-.01756	-.00317	-.00009	.00045	-.00869	.22951
-9.994	349.710	600.13000	.13707	.00557	.26707	-.01779	-.00280	-.00017	.00036	-.00874	.23005
-10.000	399.770	600.07000	.26956	.00677	.21701	-.01555	-.00258	-.00021	.00022	-.01207	.22989
-10.022	449.910	600.22000	.13677	.00158	.18279	-.01075	-.00366	-.00008	.00037	-.01386	.22977
-10.047	500.290	600.21000	-.16042	.00142	.16174	-.00352	-.00339	-.00007	.00042	-.01266	.23041
-10.050	600.420	600.30000	.54385	.00353	.13772	.00056	-.00413	-.00007	.00043	-.01145	.22966
-10.066	700.450	600.35000	.59219	.00235	.13714	.00075	-.00409	-.00009	.00044	-.01117	.23023
-10.005	799.550	600.38000	.14883	.00495	.13777	.00072	-.00408	-.00006	.00042	-.01158	.22969
-9.969	999.910	599.93000	.10326	.00556	.13701	.00075	-.00408	-.00008	.00042	-.01125	.22975
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2716/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.554	200.450	600.22000	.07697	.00539	.28439	.00001	-.00321	-.00025	-.00003	-.01027	.22959
-5.515	249.940	600.15000	-.18995	-.00010	.27930	-.01327	-.00384	-.00016	.00063	-.00553	.23008
-5.503	299.800	600.20000	.37233	.00554	.22572	-.01437	-.00359	-.00015	.00026	-.01033	.22972
-5.547	400.350	600.27000	.09163	.00281	.16526	-.00601	-.00419	-.00009	.00037	-.01360	.22926
-5.561	500.350	600.27000	-.10998	-.00205	.14183	-.00033	-.00436	-.00013	.00046	-.01228	.22999
-5.550	600.230	600.25000	-.17264	-.00100	.13546	.00073	-.00429	-.00012	.00041	-.01170	.22975
-5.532	699.680	600.25000	.05989	.00219	.13570	.00071	-.00423	-.00012	.00041	-.01180	.22971
-5.512	799.400	600.32000	.75366	.01240	.13548	.00077	-.00427	-.00012	.00042	-.01180	.23005
-5.485	819.100	600.17000	-.11373	.00278	.13557	.00075	-.00419	-.00014	.00041	-.01185	.22989
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (SVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.008	625.100	-5.00500	-.00116	-.00436	-.09568	-.01069	.03402	.00652	-.00105	.00075
-20.025	700.260	-4.99300	-.00119	.00010	-.13091	.00110	.03744	.00424	-.00083	.00098
-20.008	799.510	-4.99000	-.00115	.00431	-.17531	.00555	.03359	.00351	-.00077	.00055
-20.062	1000.500	-4.98900	-.00106	-.00362	-.18933	.01205	.04127	.00373	-.00082	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.999	474.620	-5.00300	-.00096	.00405	-.07870	-.01011	.03221	.00578	-.00120	.00056
-15.000	499.800	-5.00200	-.00094	-.00004	-.10741	-.00776	.03026	.00598	-.00121	.00056
-15.024	549.830	-4.99300	-.00108	.00286	-.13649	-.00139	.03045	.00426	-.00097	.00050
-15.039	600.100	-4.99300	-.00101	-.00030	-.15947	.00568	.03189	.00380	-.00095	.00051
-15.055	700.400	-4.99000	-.00095	-.00098	-.18699	.01059	.03318	.00334	-.00093	.00053
-15.008	799.460	-4.99300	-.00093	.00925	-.19432	.01182	.03380	.00331	-.00095	.00049
-15.008	999.790	-4.99300	-.00096	-.00082	-.19419	.01178	.03369	.00332	-.00092	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2708/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.027	324.950	-4.99800	-.00107	.00265	-.03830	-.00568	.03697	.00417	-.00102	.00049
-9.994	349.710	-5.00010	-.00099	.00557	-.06400	-.00591	.03492	.00453	-.00110	.00040
-10.000	399.770	-5.00000	-.00094	.00677	-.11475	-.00485	.03169	.00477	-.00114	.00026
-10.022	449.910	-4.99700	-.00100	.00158	-.14645	.00014	.02983	.00368	-.00101	.00038
-10.047	500.290	-4.99200	-.00091	.00142	-.16837	.00735	.03094	.00343	-.00100	.00047
-10.050	600.420	-4.99000	-.00086	.00853	-.19297	.01142	.03216	.00320	-.00100	.00047
-10.066	700.450	-4.98800	-.00083	.00665	-.19394	.01163	.03250	.00324	-.00103	.00048
-10.005	799.950	-4.98900	-.00087	.00496	-.19398	.01162	.03217	.00327	-.00099	.00046
-9.969	998.910	-4.98860	-.00084	.00556	-.19378	.01162	.03238	.00325	-.00102	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2716/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.554	200.450	-4.98230	-.00065	.00539	-.04496	.01083	.03317	.00409	-.00118	.00001
-5.515	249.940	-4.99480	-.00091	-.00010	-.05004	-.00244	.03794	.00347	-.00109	.00067
-5.503	299.800	-4.99330	-.00096	.00654	-.10337	-.00356	.03307	.00360	-.00108	.00030
-5.547	400.350	-4.99350	-.00091	.00281	-.16290	.00481	.02981	.00310	-.00102	.00041
-5.561	500.350	-4.99340	-.00080	-.00205	-.18770	.01030	.03118	.00294	-.00106	.00051
-5.550	600.230	-4.99300	-.00080	-.00100	-.19349	.01154	.03168	.00300	-.00105	.00046
-5.532	699.630	-4.99330	-.00080	.00219	-.19338	.01153	.03164	.00306	-.00105	.00046
-5.512	799.400	-4.98850	-.00080	.01240	-.19352	.01158	.03159	.00302	-.00104	.00046
-5.485	819.100	-4.98940	-.00078	.00278	-.19358	.01157	.03156	.00310	-.00106	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMO	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.008	625.100	600.09000	-.28513	.05188	.00930	440.04000	.00000	.00000	658.56000	.00000	.00000
-20.025	700.260	600.10000	-.13942	.03065	-.03099	439.47000	.00000	.00000	657.70000	.00000	.00000
-20.008	799.510	600.11000	.08581	.03818	-.03160	439.05000	.00000	.00000	657.08000	.00000	.00000
-20.062	1000.500	600.30000	-.33850	.04717	-.05064	436.49000	.00000	.00000	653.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMO	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.999	474.620	600.16000	.19896	.03815	-.07577	441.55000	.00000	.00000	660.82000	.00000	.00000
-15.000	499.800	600.13000	-.01587	.04306	-.00095	442.68000	.00000	.00000	662.51000	.00000	.00000
-15.024	549.830	600.19000	.22163	.02549	-.03095	443.02000	.00000	.00000	663.02000	.00000	.00000
-15.039	600.100	600.21000	-.25892	.02768	-.03504	442.24000	.00000	.00000	661.84000	.00000	.00000
-15.065	700.400	600.43000	-.03158	.03079	-.03519	441.98000	.00000	.00000	661.46000	.00000	.00000
-15.008	799.460	600.12000	.30362	.03187	-.04261	442.68000	.00000	.00000	662.51000	.00000	.00000
-15.008	999.790	600.13000	-.08235	.03735	-.04998	443.33000	.00000	.00000	663.48000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMO	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.027	324.950	600.21000	-.05119	-.00402	-.11056	438.14000	.00000	.00000	655.71000	.00000	.00000
-9.994	349.710	600.13000	.13707	-.01968	-.11416	438.24000	.00000	.00000	655.86000	.00000	.00000
-10.000	399.770	600.07000	.28956	.01346	.00252	439.15000	.00000	.00000	657.23000	.00000	.00000
-10.022	449.910	600.22000	.13677	.01487	.01244	438.47000	.00000	.00000	656.22000	.00000	.00000
-10.047	500.290	600.21000	-.16042	.01462	.00245	437.63000	.00000	.00000	654.95000	.00000	.00000
-10.050	600.420	600.30000	.54386	.01677	-.00211	437.74000	.00000	.00000	655.11000	.00000	.00000
-10.066	700.450	600.35000	.59219	.01789	-.00409	438.25000	.00000	.00000	655.88000	.00000	.00000
-10.005	799.950	600.36000	.14863	.01866	-.00360	439.13000	.00000	.00000	657.20000	.00000	.00000
-9.969	998.910	599.98000	.10326	.02079	-.00638	437.85000	.00000	.00000	655.29000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1 W/ET SEPARATING (TVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2716/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.554	200.450	600.22000	.07697	-.01176	-.08501	435 97000	.00000	.00000	652.46000	.00000	.00000
-5.515	249.940	600.15000	-.18583	-.02793	-.07140	436 35000	.00000	.00000	653.04000	.00000	.00000
-5.503	299.800	600.20000	.37233	-.00410	.01405	435 62000	.00000	.00000	651.95000	.00000	.00000
-5.547	400.350	600.27000	.09163	.00659	.03050	435 72000	.00000	.00000	652.09000	.00000	.00000
-5.561	500.350	600.27000	-.10983	.00930	.02486	435 20000	.00000	.00000	652.81000	.00000	.00000
-5.550	600.230	600.23000	-.17854	.00854	.01983	435 43000	.00000	.00000	651.65000	.00000	.00000
-5.532	699.830	600.23000	.03029	.00934	.01879	435 03000	.00000	.00000	652.51000	.00000	.00000
-5.512	752.400	600.33000	.75335	.01070	.01780	435 45000	.00000	.00000	651.75000	.00000	.00000
-5.485	819.100	600.17000	-.11373	.01165	.01859	435 70000	.00000	.00000	652.05000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1 W/ET SEPARATING (UVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.008	625.100	979.69000	979.69000	84.00000	979.69000	979.29000	69.00000	73.00000	-.19605	99.64200
-20.025	700.260	979.03000	979.83000	84.00000	979.83000	979.29000	68.00000	73.00000	-2.24730	99.64200
-20.008	799.510	979.90000	979.90000	84.00000	979.90000	979.29000	68.00000	73.00000	-.44038	99.64200
-20.062	1000.500	979.49000	979.49000	84.00000	979.49000	979.29000	68.00000	73.00000	4.31940	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1: W/ET SEPARATING (UVK014) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.999	474.620	975.25000	975.25000	86.00000	975.25000	975.03999	71.00000	80.00000	12.11800	99.51600
-15.000	499.800	975.29000	975.29000	86.00000	975.29000	975.03999	71.00000	80.00000	4.32630	99.51600
-15.024	549.830	975.56000	975.56000	86.00000	975.56000	975.03999	71.00000	80.00000	.88801	99.51600
-15.039	600.100	975.29000	975.29000	86.00000	975.29000	975.03999	71.00000	80.00000	1.48770	99.51600
-15.055	700.400	975.22000	975.22000	86.00000	975.22000	975.03999	71.00000	80.00000	2.41900	99.51600
-15.008	799.460	975.30000	975.30000	86.00000	975.30000	975.03999	71.00000	80.00000	3.62140	99.51600
-15.008	999.790	975.25000	975.25000	86.00000	975.25000	975.03999	71.00000	80.00000	7.05110	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2708/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.027	324.950	975.93000	975.93000	87.00000	975.93000	975.57000	71.00000	79.00000	14.80500	99.51600
-9.994	349.710	975.67000	975.67000	87.00000	975.67000	975.57000	71.00000	79.00000	9.12570	99.51600
-10.000	399.770	975.73000	975.76000	87.00000	975.73000	975.57000	71.00000	79.00000	.74717	99.51600
-10.022	449.910	975.71000	975.71000	87.00000	975.71000	975.57000	71.00000	79.00000	-3.09150	99.51600
-10.047	500.290	975.76000	975.76000	87.00000	975.76000	975.57000	71.00000	79.00000	-3.08050	99.51600
-10.050	600.420	975.52000	975.52000	87.00000	975.52000	975.57000	71.00000	79.00000	-2.48030	99.51600
-10.056	700.450	975.70000	975.70000	87.00000	975.70000	975.57000	71.00000	79.00000	-1.42630	99.51600
-10.005	799.550	975.72000	975.72000	87.00000	975.72000	975.57000	71.00000	79.00000	-.05352	99.51600
-9.989	999.910	975.78000	975.78000	87.00000	975.78000	975.57000	71.00000	79.00000	1.51650	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2716/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.554	200.450	976.87000	976.87000	88.00000	976.87000	976.53999	72.00000	79.00000	4.27830	99.51600
-5.515	249.940	976.77000	976.77000	88.00000	976.77000	976.53999	72.00000	79.00000	1.89380	99.51600
-5.503	299.800	976.58000	976.58000	88.00000	976.58000	976.53999	72.00000	79.00000	-3.22120	99.51600
-5.547	400.350	975.78000	976.78000	88.00000	976.78000	976.53999	72.00000	79.00000	-6.00070	99.51600
-5.561	500.350	976.91000	976.91000	88.00000	976.91000	976.53999	72.00000	79.00000	-6.01660	99.51600
-5.550	600.230	976.62000	976.62000	88.00000	976.62000	976.53999	72.00000	79.00000	-5.43370	99.51600
-5.532	699.830	976.94000	976.94000	88.00000	976.94000	976.53999	72.00000	79.00000	-4.80570	99.51600
-5.512	799.400	976.77000	976.77000	88.00000	976.77000	976.53999	72.00000	79.00000	-3.98530	99.51600
-5.485	819.100	976.75000	976.75000	88.00000	976.75000	976.53999	72.00000	79.00000	-3.24870	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK014) (04 MAY 77)

REFERENCE DATA

SREF =	2890.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2693/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.008	625.100	600.09000	-.28513	-25.01300	-.00552	-.52672	-.06714	.01969	.00191	.00103	.11971
-20.025	700.260	600.10000	-.13942	-25.02100	-.00109	-.51808	-.06588	.02189	.00072	.00133	.12590
-20.008	799.510	600.11000	.08581	-24.99300	.00317	-.52695	-.05468	.02178	.00051	.00110	.12014
-20.062	1000.500	600.30000	-.33850	-25.05100	-.00469	-.50005	.01235	.02310	-.00260	.00096	.15467
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.999	474.620	600.16000	.19895	-20.00200	.00309	-.44531	-.05150	.01574	.00200	.00085	.12684
-15.000	499.800	600.13000	-.01587	-20.00200	-.00028	-.42319	-.06101	.01833	.00181	.00080	.11638
-15.024	549.830	600.19000	.22163	-20.02200	.00188	-.39316	-.06756	.01929	.00132	.00063	.11286
-15.039	600.100	600.21000	-.25592	-20.03200	-.00131	-.40475	-.05084	.02090	.00051	.00085	.11580
-15.065	700.400	600.43000	-.03158	-20.05500	-.00184	-.40807	-.04684	.01742	.00089	.00065	.11599
-15.008	799.460	600.12000	.30362	-19.99700	.00532	-.43789	-.01928	.01765	-.00037	.00061	.12778
-15.008	999.790	600.13000	-.08235	-19.99700	-.00179	-.47404	.03126	.01845	-.00267	.00058	.16362
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2708/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.027	324.950	600.21000	-.05119	-15.02500	.00148	-.35804	-.04570	.00298	.00254	.00049	.12161
-9.994	349.710	600.13000	.13707	-14.99400	.00458	-.35807	-.04164	.00412	.00231	.00045	.12324
-10.000	399.770	600.07000	.28956	-15.00000	.00534	-.32878	-.05299	.00799	.00293	.00051	.11340
-10.022	449.910	600.22000	.13577	-15.01900	.00058	-.30322	-.05936	.00931	.00302	.00051	.10537
-10.047	500.290	600.21000	-.16042	-15.03900	.00082	-.29500	-.05510	.01346	.00138	.00043	.10456
-10.050	600.420	600.30000	.54355	-15.04000	.00767	-.30195	-.03909	.00989	.00163	.00035	.10777
-10.066	700.450	600.35000	.50219	-15.05100	.00782	-.32077	-.01513	.01292	-.00001	.00029	.11696
-10.005	799.950	600.32000	.14633	-14.99400	.00409	-.33425	.00855	.01290	-.00096	.00017	.13008
-9.969	998.910	599.98000	.10326	-14.95800	.00472	-.37656	-.00604	.01053	-.00033	.00020	.16903
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK014) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2716/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.554	200.450	600.22000	.07697	-10.53700	.00474	-.26973	-.05049	.01459	-.00009	.00010	.11554
-5.515	249.940	600.15000	-.18995	-10.51000	-.00102	-.28081	-.03600	.01029	.00107	.00014	.11732
-5.503	299.800	600.20000	.37233	-10.50200	.00757	-.25822	-.04061	.00547	.00193	.00002	.10791
-5.547	400.350	600.27000	.09163	-10.54000	.00189	-.22080	-.04888	.00658	.00272	.00033	.10059
-5.561	500.350	600.27000	-.10998	-10.55000	-.00285	-.21806	-.03284	.00765	.00200	.00022	.09924
-5.550	600.230	600.23000	-.17264	-10.53000	-.00179	-.22905	-.01177	.01024	.00035	.00004	.10873
-5.532	699.680	600.25000	.05939	-10.52100	.00139	-.23527	.00603	.01117	-.00051	-.00001	.11857
-5.512	799.400	600.32000	.75366	-10.50100	.01160	-.22862	.01340	.01070	-.00097	.00002	.12551
-5.465	819.100	600.17000	-.11373	-10.47400	.00200	-.22410	.01272	.01028	-.00110	.00003	.12653
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK015) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.008	324.570	.10598	53.83000	2.99340	.37960	-.00139	-.00842	.00057	-.00179	-.00559	.22988
-10.033	349.660	.26468	54.25300	2.99750	.34940	-.00502	-.00535	.00051	-.00168	-.00629	.22974
-10.002	399.020	.08598	53.95200	2.99670	.32281	-.01602	-.00336	-.00015	-.00126	-.00673	.22917
-9.975	448.900	-.02224	53.16700	2.98250	.28811	-.02310	-.00350	-.00002	-.00028	-.00951	.22986
-9.990	499.040	.05300	54.06300	2.99290	.23369	-.02094	-.00360	.00009	.00083	-.01515	.22959
-9.984	598.700	.02974	53.91300	2.98830	.20145	-.01104	-.00420	.00006	-.00006	-.01469	.23002
-10.008	699.120	-.00697	53.92200	2.98830	.15331	-.00222	-.00396	-.00008	.00043	-.01296	.23023
-10.082	800.260	.34145	53.44300	2.98830	.13620	.00068	-.00411	-.00011	.00041	-.01133	.22983
-10.037	999.670	.26594	54.27300	2.99970	.13539	.00072	-.00420	-.00009	.00041	-.01111	.23040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D8A (IA22),ORBITER(OMIC1) W/ET SEPARATING (RVKO15) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2373/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.007	23.468	.11396	54.13000	2.99810	.19950	.01168	-.01416	.00212	.00083	.02013	.23148
-.012	41.930	.13322	53.66900	2.99120	.21120	.01533	-.01343	.00091	.00017	.01856	.23271
.008	91.551	.04839	53.55800	2.98590	.23849	.01768	-.01061	.00079	.00039	.01336	.23346
.016	141.310	.07000	53.83700	2.99310	.24621	.01399	-.01607	.00046	.00017	.00727	.23209
.026	190.930	.15783	54.08400	2.99330	.22093	.00893	-.01431	-.00001	.00004	.00199	.23145
.037	290.710	.02672	53.57900	2.99010	.20894	.00466	-.01291	-.00041	.00015	.00087	.23040
.036	390.680	.14039	53.75200	2.99730	.19008	-.00041	-.01376	-.00031	.00059	-.00034	.23051
-.002	491.210	.16372	54.15000	3.00320	.17092	.00110	-.01383	-.00025	.00050	-.00157	.23048
-.045	592.030	.19725	54.16600	2.99740	.16384	.00112	-.01397	-.00043	.00099	.00255	.23028
.027	791.340	.15551	53.47300	2.98930	.16043	.00110	-.01386	-.00040	.00099	.00335	.23009
-.002	931.330	.16493	53.65100	2.99170	.15930	.00112	-.01387	-.00039	.00098	.00366	.22936
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = .8; GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
4.948	-57.016	.35863	55.75300	3.05070	.15927	.00108	-.01882	.00010	.00069	.01641	.23102
4.962	7.562	.08824	53.42300	2.98450	.19364	.00988	-.01581	.00036	-.00003	.01968	.23101
4.999	41.337	.07739	54.03200	2.99360	.20580	.01181	-.00791	.00091	.00119	.01560	.23164
5.007	91.291	.18372	53.55100	2.99140	.20414	.01416	-.01590	.00005	.00026	.00636	.23082
5.038	190.510	.27212	53.69300	2.99160	.18852	.00397	-.01564	-.00009	.00047	.00281	.23154
5.025	290.680	.19056	53.69700	2.99310	.19410	.00237	-.01388	-.00035	.00069	.00275	.23099
4.993	391.320	.21979	54.02800	2.99200	.17223	.00116	-.01466	-.00044	.00057	-.00037	.23150
4.975	591.610	.16196	53.65700	2.99020	.16562	.00217	-.01530	-.00068	.00134	.00284	.23119
	GRADIENT	.01167	7.06467	.39467	.02561	.00131	-.00206	.00005	-.00000	.00260	.03055

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (SVK015) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.008	324.570	-4.99000	-.00150	2.99340	.04936	.00946	.03796	.00090	-.00036	-.00174
-10.033	349.660	-4.99500	-.00150	2.99750	.01941	.00592	.03723	.00196	-.00042	-.00164
-10.002	399.020	-4.99600	-.00100	2.99570	-.00705	-.00518	.03678	.00395	-.00108	-.00122
-9.975	448.900	-5.00330	-.00120	2.99250	-.04183	-.01225	.03400	.00371	-.00095	-.00024
-9.990	499.040	-5.00450	-.00130	2.99590	-.08564	-.01010	.02837	.00371	-.00084	.00088
-9.964	598.700	-4.99550	-.00110	2.99530	-.12841	-.00020	.02881	.00311	-.00087	-.00001
-10.008	699.120	-4.99100	-.00080	2.99530	-.17648	.00851	.03053	.00335	-.00101	.00047
-10.032	800.260	-4.99200	-.00080	2.99330	-.19345	.01152	.03214	.00320	-.00104	.00046
-10.037	999.570	-4.99300	-.00080	2.99970	-.19330	.01154	.03231	.00309	-.00102	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2373/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.007	23.468	-4.97651	-.00280	2.99810	-.13703	.02274	.06451	-.00670	.00117	.00088
-.012	41.930	-4.97275	-.00150	2.99120	-.12594	.02640	.06301	-.00596	-.00004	.00021
.008	91.551	-4.97389	-.00140	2.99090	-.10035	.02831	.05205	-.00311	-.00016	.00044
.016	141.310	-4.97239	-.00100	2.99510	-.08272	.02812	.05197	-.00356	-.00050	.00021
.026	190.950	-4.97805	-.00080	2.99330	-.11754	.02005	.04632	-.00741	-.00096	.00008
.037	290.710	-4.97249	-.00030	2.99010	-.13135	.01577	.04549	-.00542	-.00136	.00020
.036	390.690	-4.97783	-.00040	2.99730	-.14918	.01071	.04427	-.00627	-.00126	.00064
-.002	491.210	-4.97738	-.00050	3.00320	-.16697	.01219	.04294	-.00635	-.00120	.00055
-.045	592.030	-4.97753	-.00030	2.99740	-.17024	.01210	.04682	-.00657	-.00137	.00104
.027	791.340	-4.97736	-.00030	2.99330	-.17114	.01207	.04708	-.00651	-.00133	.00103
-.002	931.330	-4.97759	-.00030	2.99170	-.17057	.01197	.04722	-.00655	-.00132	.00103
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.948	-57.016	-4.98781	-.00080	3.05070	-.17053	.01190	.06383	-.01152	-.00082	.00074
4.952	7.582	-4.97813	-.00100	2.99450	-.13553	.02070	.06309	-.00831	-.00057	.00001
4.999	41.337	-4.97578	-.00170	2.99350	-.12313	.02263	.05901	-.00662	-.00002	.00123
5.007	91.291	-4.97331	-.00080	2.99140	-.12493	.02493	.04977	-.00860	-.00088	.00031
5.038	190.510	-4.97810	-.00080	2.99160	-.13331	.01978	.04630	-.00833	-.00101	.00051
5.025	290.690	-4.98498	-.00020	2.99340	-.13882	.01324	.04637	-.00665	-.00149	.00073
4.993	391.320	-4.98713	-.00020	2.99300	-.16014	.01209	.04348	-.00729	-.00138	.00061
4.975	591.610	-4.98551	.00000	2.99020	-.16780	.01313	.04683	-.00791	-.00162	.00108
	GRADIENT	-.65831	-.00013	.39467	-.01753	.00274	.00834	-.00110	-.00008	.00000

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (TVK015) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.008	324.570	.10598	53.83000	-.24632	-.46703	437.14000	.00000	.00000	654.21000	.00000	.00000
-10.033	349.660	.26468	54.25300	.09325	.04113	436.80000	.00000	.00000	653.71000	.00000	.00000
-10.002	399.020	.08598	53.95200	.05449	-.04293	436.64000	.00000	.00000	653.47000	.00000	.00000
-9.975	448.900	-.02224	53.16700	.03506	-.05795	436.73000	.00000	.00000	653.61000	.00000	.00000
-9.990	499.040	.05300	54.06300	.01597	-.07391	436.74000	.00000	.00000	653.61000	.00000	.00000
-9.994	599.700	.02974	53.91300	.03927	-.02913	436.64000	.00000	.00000	653.47000	.00000	.00000
-10.008	699.120	-.00697	53.92200	.03782	-.02453	436.55000	.00000	.00000	653.34000	.00000	.00000
-10.082	800.260	.34145	53.44300	.03105	-.01847	436.35000	.00000	.00000	653.05000	.00000	.00000
-10.037	999.670	.26594	54.27300	.02189	-.00416	435.74000	.00000	.00000	652.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2373/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.007	23.468	.11396	54.13000			415.47000	.00000	.00000	666.69000	.00000	.00000
-.012	41.930	.13322	53.83900			416.14000	.00000	.00000	667.69000	.00000	.00000
.008	91.551	.04839	53.55900			418.53000	.00000	.00000	671.27000	.00000	.00000
.016	141.310	.07000	53.83700			418.65000	.00000	.00000	671.44000	.00000	.00000
.026	190.950	.15783	54.05400			418.03000	.00000	.00000	670.51000	.00000	.00000
.037	290.710	.02672	53.57900			417.81000	.00000	.00000	670.18000	.00000	.00000
.036	390.680	.14039	53.75200			417.73000	.00000	.00000	670.06000	.00000	.00000
-.002	491.210	.16372	54.15000			416.74000	.00000	.00000	668.53000	.00000	.00000
-.045	592.030	.19725	54.16300			412.33000	.00000	.00000	662.02000	.00000	.00000
.027	791.340	.15551	53.47300			433.90000	.00000	.00000	656.85000	.00000	.00000
-.002	931.330	.18498	53.65100			437.17000	.00000	.00000	654.27000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.948	-57.016	.35563	55.75300			435.77000	.00000	.00000	652.17000	.00000	.00000
4.962	7.562	.08324	53.42300			435.78000	.00000	.00000	652.18000	.00000	.00000
4.999	41.337	.07739	54.03200			435.67000	.00000	.00000	652.01000	.00000	.00000
5.007	91.291	.18372	53.53100			435.62000	.00000	.00000	651.95000	.00000	.00000
5.038	190.510	.27212	53.55300			435.54000	.00000	.00000	651.82000	.00000	.00000
5.025	290.680	.19055	53.69700			437.77000	.00000	.00000	655.16000	.00000	.00000
4.993	391.320	.21979	54.02300			440.12000	.00000	.00000	658.68000	.00000	.00000
4.975	591.610	.16155	53.65700			441.48000	.00000	.00000	660.72000	.00000	.00000
	GRADIENT	.01167	7.06467			57.62761	.00000	.00000	86.24438	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R;1) W/ET SEPARATING (UVK015) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	3.000	X =	.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.008	324.570	976.11000	976.11000	87.00000	976.11000	975.69000	72.00000	79.00000	33.65300	99.51600
-10.033	349.650	975.84000	975.84000	87.00000	975.64000	975.69000	72.00000	79.00000	31.04100	99.51600
-10.002	399.020	975.93000	975.93000	87.00000	975.83000	975.83000	72.00000	79.00000	27.00400	99.51600
-9.975	448.900	976.17000	976.17000	87.00000	976.17000	975.69000	72.00000	79.00000	27.69400	99.51600
-9.990	499.040	976.16000	976.16000	87.00000	976.16000	975.69000	72.00000	79.00000	25.74600	99.51600
-9.964	598.700	976.45000	976.45000	87.00000	976.45000	975.83000	72.00000	79.00000	16.93300	99.51600
-10.008	699.120	976.25000	976.25000	87.00000	976.25000	975.83000	72.00000	79.00000	8.23720	99.51600
-10.082	800.260	976.31000	976.31000	87.00000	976.31000	975.69000	72.00000	79.00000	3.13200	99.51600
-10.037	999.670	976.35000	976.35000	87.00000	976.35000	975.83000	72.00000	79.00000	-1.22150	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2373/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.007	23.468	978.47000	978.47000	83.00000	978.47000	978.25000	68.00000	74.00000	-11.98500	99.76800
-.012	41.930	978.97000	978.97000	83.00000	978.97000	978.25000	68.00000	74.00000	-10.70200	99.76800
.008	91.551	983.71000	983.71000	83.00000	983.71000	978.25000	68.00000	74.00000	-9.24520	99.76800
.016	141.310	982.43000	982.43000	83.00000	982.42000	978.25000	68.00000	74.00000	-9.52310	99.76800
.026	190.950	981.12000	981.12000	83.00000	981.12000	978.25000	68.00000	74.00000	-10.37200	99.76800
.037	290.710	979.15000	979.15000	83.00000	979.15000	978.25000	68.00000	74.00000	-11.20000	99.76800
.036	390.650	977.93000	977.93000	83.00000	977.93000	978.25000	68.00000	74.00000	-11.73500	99.76800
-.002	491.210	976.33000	976.33000	83.00000	976.33000	978.25000	68.00000	74.00000	-12.01000	99.76800
-.045	592.030	976.82000	976.82000	83.00000	976.82000	978.25000	68.00000	74.00000	-12.20600	99.76800
.027	791.340	975.69000	975.69000	83.00000	975.69000	978.25000	68.00000	74.00000	-12.62000	99.76800
-.002	931.330	974.27000	974.27000	83.00000	974.27000	978.25000	68.00000	74.00000	-13.12300	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.948	-57.016	975.00000	975.00000	84.00000	975.00000	974.76000	68.00000	75.00000	-12.52800	99.76800
4.962	7.582	975.01000	975.01000	84.00000	975.01000	974.76000	68.00000	75.00000	-12.54500	99.76800
4.999	41.337	975.23000	975.23000	84.00000	975.23000	974.76000	68.00000	75.00000	-12.14200	99.76800
5.007	91.291	975.63000	975.63000	84.00000	975.63000	974.76000	68.00000	75.00000	-13.45900	99.76800
5.038	190.510	975.93000	975.93000	84.00000	975.93000	974.76000	68.00000	75.00000	-14.62300	99.76800
5.025	290.630	976.03000	976.03000	84.00000	976.02000	974.76000	68.00000	75.00000	-14.56200	99.76800
4.993	391.320	976.43000	976.43000	84.00000	976.43000	974.76000	68.00000	75.00000	-14.41400	99.76800
4.975	591.610	976.55000	976.55000	84.00000	976.55000	974.76000	68.00000	75.00000	-13.99700	99.76800
	GRADIENT	128.93547	128.93547	11.10817	128.93547	128.90505	8.90233	9.91801	-1.65895	13.19334

V41B-09A (IA22).ET SEPARATING FROM ORB (04RC1) (AVK015) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DSETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2709/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.008	324.570	.10598	53.83000	-14.98800	2.99190	-.32920	-.01600	-.03473	-.00892	.00072	.11979
-10.033	349.660	.26468	54.25300	-15.01800	2.99800	-.30802	-.02812	-.03719	-.00787	.00063	.10571
-10.002	399.020	.08598	53.95200	-14.99300	2.99470	-.29764	-.02877	-.03702	-.00776	.00060	.10546
-9.975	448.900	-.02224	53.16700	-14.97800	2.99130	-.30924	-.01717	-.03702	-.00721	.00059	.11196
-9.990	499.040	.05300	54.06300	-14.99500	2.99550	-.32328	-.00441	-.03690	-.00697	.00058	.12073
-9.964	598.700	.02974	53.91300	-14.98000	2.99520	-.34618	.02174	-.03540	-.00766	.00065	.14063
-10.008	699.120	-.00697	53.92200	-14.99900	2.99300	-.32501	.02184	-.03272	-.00904	.00064	.14791
-10.082	800.260	.34145	53.94300	-15.07100	2.99740	-.24907	-.02161	-.03482	-.00908	.00030	.11095
-10.037	999.670	.26594	54.27300	-15.02600	2.99380	-.21632	-.03063	-.03430	-.00909	.00037	.11057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2373/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.007	23.468	.11396	54.13000	-4.98380	2.99530	-.11068	-.02667	-.04775	-.01129	.00069	.08674
-.012	41.930	.13322	53.83900	-4.99480	2.99370	-.12360	-.02725	-.04416	-.01051	.00081	.08774
.008	91.551	.04839	53.55900	-4.99120	2.99450	-.13487	-.01891	-.04087	-.00282	.00059	.09156
.016	141.310	.07000	53.83700	-4.99080	2.99410	-.13650	-.01377	-.03845	-.00901	.00055	.09060
.026	190.950	.15783	54.09400	-4.99190	2.99330	-.13784	-.00511	-.03987	-.00780	.00057	.09453
.037	290.710	.02672	53.57900	-4.99560	2.99030	-.14289	.01036	-.03760	-.00729	.00048	.10353
.036	390.680	.14039	53.75200	-4.99150	2.99590	-.14442	.02238	-.03291	-.00919	.00052	.11369
-.002	491.210	.16372	54.15000	-4.99060	3.00270	-.11643	.01538	-.02548	-.01128	.00041	.11379
-.045	592.030	.19725	54.16500	-5.03210	2.99710	-.06529	-.01317	-.03059	-.01064	.00026	.08907
.027	791.340	.15551	53.47300	-4.99110	2.99900	-.06325	-.01487	-.03116	-.01044	.00035	.09371
-.002	931.330	.18498	53.65100	-4.99370	2.99140	-.06372	-.01500	-.03127	-.01029	.00035	.09381
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.948	-57.016	.35963	55.75300	-.04001	3.04990	-.02249	-.00958	-.04712	-.00994	.00050	.08586
4.962	7.562	.08924	53.42300	-.01573	2.98350	-.05997	-.00399	-.03415	-.00911	.00062	.08616
4.999	41.337	.07739	54.03200	.02372	2.99190	-.06422	-.00269	-.03701	-.00774	.00045	.08919
5.007	91.291	.18372	53.55100	.03359	2.99080	-.07551	.00559	-.03525	-.00813	.00060	.09386
5.038	190.510	.27212	53.55300	.05030	2.99110	-.07381	.02294	-.03308	-.00848	.00048	.10207
5.025	290.680	.19086	53.69700	.04042	2.99520	-.07013	.03081	-.02226	-.01091	.00037	.10750
4.993	391.320	.21979	54.02800	.00557	2.99780	-.03934	.01921	-.02796	-.01157	.00026	.10063
4.975	591.610	.16196	53.65700	-.01111	2.99020	-.00595	.00107	-.03044	-.01067	.00029	.08725
	GRADIENT	.01167	7.06467	-.00208	.39454	-.00793	-.00119	-.00452	-.00121	.00008	.01139

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK016) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2710/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-9.989	324.460	200.05000	53.94500	2.99900	.39199	-.02190	-.00223	-.00021	-.00029	-.01258	.23028
-9.989	349.530	200.03000	53.96100	2.99900	.34612	-.02050	-.00345	-.00004	-.00015	-.00798	.22989
-10.030	399.950	200.23000	53.87300	2.99660	.28193	-.01851	-.00283	-.00026	.00035	-.00671	.23022
-10.034	449.930	200.23000	53.84100	2.99540	.22160	-.01593	-.00280	-.00024	.00039	-.01132	.23034
-10.058	500.350	200.33000	54.01000	2.99030	.18578	-.01212	-.00436	-.00006	.00039	-.01297	.23038
-10.061	600.460	200.33000	53.93700	2.99510	.15300	-.00230	-.00402	-.00009	.00043	-.01235	.23008
-10.007	699.810	200.20000	53.78100	2.99100	.14027	-.00021	-.00420	-.00009	.00047	-.01117	.23035
-9.929	798.530	200.03000	53.87400	2.99590	.13549	.00074	-.00406	-.00011	.00042	-.01102	.23023
-10.013	999.410	200.11000	54.23300	2.99970	.13547	.00075	-.00413	-.00012	.00041	-.01096	.23020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2374/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.004	23.727	200.14000	53.89300	2.99570	.23169	.02805	-.00735	.00275	.00050	.01522	.23394
-.032	42.241	200.17000	54.03200	3.00230	.24563	.02784	-.01316	.00219	.00021	.01134	.23323
-.022	92.428	200.17000	54.23000	3.00190	.23058	.02071	-.01336	.00079	.00043	.00923	.23238
-.022	142.120	200.20000	54.18100	3.00100	.23476	.01009	-.01425	-.00018	.00030	.00580	.23243
-.040	192.470	200.26000	53.90800	3.00150	.21586	.00404	-.01421	.00022	-.00007	.00421	.23031
-.036	292.400	200.25000	54.02800	2.99200	.19336	.00115	-.01220	-.00048	.00053	.00345	.22869
-.029	392.180	200.21000	53.78300	2.99000	.17130	-.00022	-.01370	-.00027	.00053	.00070	.22838
.016	491.620	200.12000	54.04400	2.99230	.16462	-.00014	-.01388	-.00032	.00092	.00286	.22895
.045	590.930	200.07000	54.17300	2.99330	.15764	.00104	-.01367	-.00040	.00097	.00406	.22943
.003	791.390	200.22000	53.95100	2.99330	.15778	.00111	-.01390	-.00037	.00097	.00380	.22964
-.016	931.350	200.18000	54.01800	2.99750	.15905	.00110	-.01368	-.00041	.00098	.00370	.23058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2380/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
5.013	-59.271	200.12000	54.11200	3.00490	.18359	.01021	-.01160	.00136	.00016	.01626	.23172
4.985	6.817	200.17000	54.09700	2.99040	.22387	.02257	-.01509	.00180	.00047	.01035	.23177
4.975	42.097	200.22000	53.92900	2.99910	.20123	.01901	-.01543	.00024	.00081	.00873	.23170
4.947	92.592	200.19000	54.07500	3.00150	.21618	.01205	-.01619	-.00031	.00060	.00243	.23139
4.961	192.320	200.15000	53.84800	2.99210	.20788	.00514	-.01442	-.00042	.00047	.00379	.23200
4.980	292.130	200.15000	53.89100	2.99730	.19055	.00089	-.01458	-.00045	.00068	.00027	.23212
5.031	391.070	200.30000	53.92000	2.99480	.17259	.00171	-.01460	-.00038	.00055	-.00148	.23207
4.987	591.360	200.13000	53.92300	2.99330	.16548	.00217	-.01465	-.00058	.00105	.00228	.23209
	GRADIENT	29.38249	7.93390	.43983	.03328	.00331	-.00221	.00026	.00007	.00152	.03400

V41B-D9A (IA22),ORBITER((4RC1) W/ET SEPARATING (SVK016) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2710/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.989	324.460	-4.99730	-.00090	2.99300	.06305	-.01109	.03081	.00506	-.00113	-.00025
-9.989	349.530	-4.99370	-.00120	2.99300	.01704	-.00989	.03542	.00384	-.00096	-.00011
-10.030	399.950	-5.00000	-.00090	2.99350	-.04597	-.00770	.03555	.00446	-.00119	.00039
-10.034	449.930	-5.00100	-.00090	2.99340	-.10752	-.00511	.03209	.00439	-.00117	.00043
-10.058	500.350	-4.99800	-.00110	2.99330	-.14371	-.00129	.03048	.00294	-.00099	.00044
-10.061	600.460	-4.99100	-.00080	2.99510	-.17651	.00032	.03111	.00328	-.00101	.00047
-10.007	699.810	-4.99000	-.00090	2.99100	-.18334	.01059	.03217	.00308	-.00102	.00051
-9.929	798.530	-4.98910	-.00090	2.99590	-.19379	.01155	.03241	.00324	-.00104	.00046
-10.013	999.410	-4.99000	-.00080	2.99970	-.19350	.01166	.03242	.00316	-.00105	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2374/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.004	23.727	-4.99935	-.00350	2.99570	-.05726	.03696	.05660	-.00006	.00182	.00054
-.032	42.241	-4.99912	-.00270	3.00350	-.08271	.03683	.05464	-.00587	.00126	.00026
-.022	92.428	-4.99947	-.00130	3.00190	-.07710	.03147	.05245	-.00610	-.00014	.00048
-.022	142.120	-4.97600	-.00040	3.00100	-.05272	.02085	.04688	-.00699	-.00110	.00035
-.040	192.470	-4.99942	-.00030	3.00150	-.11030	.01477	.04729	-.00597	-.00071	-.00002
-.036	292.400	-4.99903	-.00020	2.99300	-.12036	.01190	.04686	-.00496	-.00140	.00057
-.029	392.180	-4.99891	-.00050	2.99300	-.15527	.00834	.04390	-.00644	-.00119	.00058
.016	491.620	-4.99886	-.00040	2.99350	-.16310	.01063	.04608	-.00662	-.00124	.00097
.045	590.930	-4.98785	-.00030	2.99350	-.16836	.01181	.04727	-.00641	-.00132	.00102
.003	791.390	-4.98773	-.00030	2.99330	-.17089	.01190	.04714	-.00662	-.00130	.00102
-.016	931.350	-4.98771	-.00030	2.99750	-.17073	.01193	.04719	-.00637	-.00134	.00102
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2380/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.013	-59.271	-4.97843	-.00220	3.00490	-.14384	.02127	.06064	-.00415	.00041	.00020
4.985	6.817	-4.98553	-.00240	2.99340	-.10374	.03363	.05475	-.00763	.00085	.00052
4.975	42.097	-4.98850	-.00080	2.99910	-.10313	.03007	.05309	-.00798	-.00071	.00086
4.947	92.592	-4.97545	-.00020	3.00150	-.12083	.02313	.04687	-.00872	-.00126	.00064
4.961	192.320	-4.98197	-.00020	2.99210	-.12775	.01617	.04806	-.00859	-.00136	.00052
4.990	292.130	-4.98063	-.00020	2.98730	-.14465	.01190	.04448	-.00715	-.00140	.00072
5.031	391.070	-4.98097	-.00030	2.98180	-.16343	.01271	.04270	-.00717	-.00132	.00060
4.987	591.380	-4.98382	-.00010	2.98530	-.16319	.01317	.04642	-.00723	-.00153	.00109
	GRADIENT	-.72838	-.00035	.43983	-.01510	.00493	.00803	-.00112	.00012	.00008

V41B-D9A (IA22),ORBITER(C-IRCI) W/ET SEPARATING (TVK016) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2710/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.989	324.460	200.05000	53.94500	-.00151	-.09297	435.42000	.00000	.00000	651.65000	.00000	.00000
-9.989	349.530	200.03000	53.96100	-.00804	-.09211	435.61000	.00000	.00000	651.92000	.00000	.00000
-10.030	399.950	200.23000	53.87300	-.01605	-.06749	435.36000	.00000	.00000	651.56000	.00000	.00000
-10.034	449.930	200.26000	53.84100	.01507	.02945	435.66000	.00000	.00000	652.00000	.00000	.00000
-10.058	500.350	200.33000	54.01000	.01173	.02655	436.14000	.00000	.00000	652.73000	.00000	.00000
-10.061	600.460	200.36000	53.96700	.01073	.01456	436.18000	.00000	.00000	652.78000	.00000	.00000
-10.007	699.810	200.20000	53.78100	.01256	.01407	434.98000	.00000	.00000	650.98000	.00000	.00000
-9.929	793.530	200.03000	53.87400	.01299	.00976	435.87000	.00000	.00000	652.31000	.00000	.00000
-10.013	999.410	200.11000	54.23300	.01435	.00747	435.45000	.00000	.00000	651.68000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2374/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.004	23.727	200.14000	53.89300	**********	**********	435.43000	.00000	.00000	651.66000	.00000	.00000
-.032	42.241	200.17000	54.03200	**********	**********	434.62000	.00000	.00000	650.44000	.00000	.00000
-.022	92.428	200.17000	54.23000	**********	**********	433.75000	.00000	.00000	649.14000	.00000	.00000
-.022	142.120	200.20000	54.18100	**********	**********	433.47000	.00000	.00000	648.73000	.00000	.00000
-.040	192.470	200.23000	53.90300	**********	**********	432.40000	.00000	.00000	647.12000	.00000	.00000
-.036	292.400	200.25000	54.02600	**********	**********	432.73000	.00000	.00000	647.62000	.00000	.00000
-.029	392.180	200.21000	53.78900	**********	**********	433.60000	.00000	.00000	648.92000	.00000	.00000
.016	491.620	200.12000	54.04400	**********	**********	433.80000	.00000	.00000	649.22000	.00000	.00000
.045	590.930	200.07000	54.17600	**********	**********	433.64000	.00000	.00000	648.97000	.00000	.00000
.003	791.390	200.23000	53.93100	**********	**********	435.08000	.00000	.00000	651.10000	.00000	.00000
-.016	931.360	200.18000	54.01800	**********	**********	436.52000	.00000	.00000	653.30000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2390/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.013	-59.271	200.12000	54.11200	**********	**********	445.45000	.00000	.00000	666.65000	.00000	.00000
4.985	6.817	200.17000	54.08700	**********	**********	445.57000	.00000	.00000	666.83000	.00000	.00000
4.975	42.097	200.22000	53.98800	**********	**********	445.24000	.00000	.00000	666.33000	.00000	.00000
4.947	92.592	200.13000	54.07500	**********	**********	446.11000	.00000	.00000	667.64000	.00000	.00000
4.951	192.320	200.15000	53.84600	**********	**********	444.27000	.00000	.00000	664.89000	.00000	.00000
4.980	292.130	200.15000	53.69100	**********	**********	443.71000	.00000	.00000	664.04000	.00000	.00000
5.031	391.070	200.30000	53.92000	**********	**********	443.48000	.00000	.00000	663.70000	.00000	.00000
4.987	591.380	200.13000	53.92800	**********	**********	443.00000	.00000	.00000	662.99000	.00000	.00000
	GRADIENT	29.36249	7.93390	**********	**********	65.35968	.00000	.00000	97.81582	.00000	.00000

V41B-D9A (IA22),ORBITER(OTRC1) W/ET SEPARATING (UVK016) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	3.000	X =	200.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2710/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.989	324.460	976.13000	976.13000	86.00000	976.13000	975.96999	71.00000	79.00000	8.48470	99.51600
-9.989	349.530	976.07000	976.06000	86.00000	976.06000	975.96999	71.00000	79.00000	5.96110	99.51600
-10.030	399.950	976.00000	976.00000	86.00000	976.00000	975.96999	71.00000	79.00000	1.77480	99.51600
-10.034	449.930	976.17000	976.17000	86.00000	976.17000	975.96999	71.00000	79.00000	-3.16420	99.51600
-10.058	500.350	975.82000	975.82000	86.00000	975.82000	975.96999	71.00000	79.00000	-5.99390	99.51600
-10.061	600.460	975.90000	975.90000	86.00000	975.90000	975.96999	71.00000	79.00000	-6.62630	99.51600
-10.007	699.810	976.10000	976.10000	86.00000	976.10000	975.96999	71.00000	79.00000	-5.93570	99.51600
-9.929	799.530	976.16000	976.16000	86.00000	976.16000	975.96999	71.00000	79.00000	-5.15480	99.51600
-10.013	999.410	976.18000	976.18000	86.00000	976.18000	975.96999	71.00000	79.00000	-4.36130	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2374/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.004	23.727	978.09000	978.09000	84.00000	978.09000	975.50000	68.00000	75.00000	-8.42900	99.76800
-.032	42.241	975.30000	975.30000	84.00000	975.30000	975.50000	68.00000	75.00000	-9.17510	99.76800
-.022	92.428	972.87000	972.87000	84.00000	972.87000	975.50000	68.00000	75.00000	-10.47100	99.76800
-.022	142.120	970.81000	970.81000	84.00000	970.81000	975.50000	68.00000	75.00000	-11.41600	99.76800
-.040	192.470	969.41000	969.41000	84.00000	969.41000	975.50000	69.00000	75.00000	-13.51800	99.76800
-.035	292.400	969.69000	969.69000	84.00000	969.69000	975.50000	68.00000	75.00000	-14.28700	99.76800
-.029	392.180	970.14000	970.14000	84.00000	970.14000	975.50000	68.00000	75.00000	-15.04800	99.76800
.016	491.620	971.07000	971.07000	84.00000	971.07000	975.50000	69.00000	75.00000	-15.08700	99.76800
.005	590.930	972.62000	972.62000	84.00000	972.62000	975.50000	68.00000	75.00000	-14.67500	99.76800
.003	791.390	974.37000	974.37000	84.00000	974.37000	975.50000	68.00000	75.00000	-14.34000	99.76800
-.016	931.380	975.73000	975.73000	84.00000	975.73000	975.50000	68.00000	75.00000	-14.04400	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2380/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.013	-59.271	978.92000	978.92000	84.00000	978.92000	978.21000	68.00000	75.00000	-13.34000	99.76800
4.985	6.817	979.18000	979.16000	84.00000	979.18000	978.21000	68.00000	75.00000	-14.16000	99.76800
4.975	42.097	979.44000	979.44000	84.00000	979.44000	978.21000	68.00000	75.00000	-14.45200	99.76800
4.947	92.592	979.30000	979.30000	84.00000	979.30000	978.21000	68.00000	75.00000	-14.64000	99.76800
4.961	192.320	979.29000	979.29000	84.00000	979.29000	978.21000	68.00000	75.00000	-14.65000	99.76800
4.980	292.130	979.51000	979.51000	84.00000	979.51000	978.21000	68.00000	75.00000	-14.16500	99.76800
5.031	391.070	979.00000	979.00000	84.00000	979.00000	978.21000	68.00000	75.00000	-14.08200	99.76800
4.987	591.380	978.44000	978.44000	84.00000	978.44000	978.21000	68.00000	75.00000	-13.63200	99.76800
	GRADIENT	143.63375	143.63375	12.32177	143.63375	143.49146	9.97477	11.00158	-2.07710	14.63475

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK018) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2710/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.989	324.460	200.05000	53.94500	-14.99800	2.99310	-.35466	-.01203	-.02974	-.01239	.00113	.12798
-9.989	349.530	200.03000	53.96100	-14.99800	2.99780	-.31771	-.03023	-.03299	-.01041	.00089	.11512
-10.030	399.950	200.23000	53.87300	-15.03000	2.99570	-.28341	-.04603	-.03539	-.00662	.00068	.10092
-10.034	449.930	200.28000	53.84100	-15.03500	2.99450	-.29702	-.03694	-.03780	-.00786	.00070	.10556
-10.058	500.350	200.33000	54.01000	-15.05700	2.99770	-.30220	-.02613	-.03834	-.00732	.00070	.10807
-10.061	600.460	200.36000	53.95700	-15.06200	2.99430	-.33095	-.00036	-.03966	-.00547	.00064	.12268
-10.007	699.810	200.20000	53.78100	-14.99700	2.99010	-.34705	.02341	-.03535	-.00729	.00072	.14339
-10.039	799.530	200.03000	53.87400	-14.91800	2.98510	-.31039	.01410	-.03393	-.00895	.00059	.14408
-10.013	899.410	200.11000	54.23300	-15.00200	2.99000	-.21747	-.03005	-.03487	-.00823	.00037	.10868
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2374/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.004	23.727	200.14000	53.88300	-4.99310	2.99220	-.14259	-.03951	-.04120	-.01421	.00071	.09477
-.032	42.241	200.17000	54.03200	-4.99070	3.00090	-.14549	-.03520	-.03768	-.01377	.00058	.09666
-.022	92.428	200.17000	54.23000	-4.99710	3.00060	-.14525	-.02939	-.03068	-.01144	.00060	.09528
-.022	142.120	200.20000	54.18100	-4.99300	3.00090	-.13071	-.02760	-.03766	-.01059	.00070	.08955
-.040	192.470	200.23000	53.98300	-5.02200	3.00090	-.13051	-.02183	-.03904	-.00944	.00059	.08581
-.036	292.400	200.25000	54.02500	-5.02150	2.99780	-.13512	-.00592	-.04050	-.00740	.00059	.09693
-.029	392.180	200.21000	53.78300	-5.01760	2.99050	-.14063	.00856	-.03783	-.00713	.00048	.10478
.016	491.620	200.12000	54.04400	-4.97290	2.99320	-.13697	.02156	-.03277	-.00928	.00055	.11433
.045	590.930	200.07000	54.17800	-4.94300	2.99220	-.10369	.01027	-.02971	-.01093	.00032	.11076
.003	791.390	200.23000	53.93100	-4.98300	2.99650	-.06271	-.01503	-.03172	-.01055	.00035	.09212
-.016	931.360	200.18000	54.01200	-5.00330	2.99720	-.06302	-.01486	-.03176	-.01038	.00035	.09262
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2350/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.013	-59.271	200.12000	54.11200	.03437	3.00270	-.04608	-.01938	-.04420	-.01402	.00051	.09093
4.985	6.817	200.17000	54.08700	.01967	2.99300	-.06816	-.01935	-.04060	-.01139	.00055	.08943
4.975	42.097	200.22000	53.92900	.00700	2.99830	-.07308	-.01515	-.03503	-.01136	.00055	.09051
4.947	92.592	200.19000	54.07500	-.02315	3.00130	-.03949	-.00900	-.03598	-.00983	.00064	.08951
4.961	192.320	200.15000	53.84900	-.02137	2.99190	-.07319	.00751	-.03671	-.00779	.00055	.09424
4.980	292.130	200.15000	53.89100	-.00333	2.99710	-.07220	.02029	-.03401	-.00915	.00044	.10027
5.031	391.070	200.30000	53.92000	.04473	2.99450	-.05615	.02228	-.02873	-.01068	.00041	.10663
4.987	591.380	200.13000	53.92800	.00078	2.99320	-.00644	.00113	-.03016	-.01068	.00028	.08728
	GRADIENT	29.36249	7.93390	.00289	.43948	-.01000	-.00288	-.00596	-.00167	.00008	.01312

W41B-D9A (IA22),ORBITER(O RCI) W/ET SEPARATING (RVK017) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2711/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.052	325.660	400.32000	54.09000	2.98380	.34687	-.01915	-.00141	-.00036	.00144	-.00966	.23020
-10.008	349.130	400.00000	53.91400	2.99730	.32053	-.02129	-.00206	-.00034	.00179	-.00831	.23004
-10.052	399.810	400.19000	53.74400	2.99390	.24206	-.01779	-.00251	-.00033	.00117	-.01083	.23022
-10.009	449.210	400.03000	54.05000	2.99750	.18317	-.01288	-.00251	-.00036	.00012	-.01380	.22994
-9.994	493.220	400.07000	53.93400	2.99430	.17005	-.00973	-.00390	-.00008	.00033	-.01378	.23032
-9.959	598.720	399.93000	53.64000	2.99720	.14330	-.00975	-.00418	-.00010	.00045	-.01242	.23022
-9.932	699.470	400.00000	53.93100	2.99300	.13333	.00034	-.00423	-.00012	.00041	-.01175	.22977
-9.970	789.500	400.01000	53.77900	2.99160	.13220	.00035	-.00419	-.00011	.00041	-.01168	.22938
-10.094	1000.100	400.28000	53.74500	2.99330	.13503	.00038	-.00422	-.00014	.00042	-.01175	.23031
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2375/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.041	24.790	399.98000	53.98000	2.99030	.26547	.03009	-.01007	.00156	.00019	.00753	.23434
.016	41.162	400.18000	53.93600	2.99000	.23005	.02705	-.01160	.00032	.00039	.00517	.23355
.043	90.522	400.13000	53.94400	3.00030	.25142	.01608	-.01437	.00015	.00018	.00180	.23290
.031	141.100	400.01000	53.98400	2.99110	.26013	.00789	-.01432	.00027	-.00001	.00303	.23205
-.008	191.340	400.16000	54.02700	2.99000	.24440	.00272	-.01210	-.00035	.00001	-.00011	.23186
.030	290.650	400.16000	53.98400	2.98570	.20255	-.00126	-.01352	-.00033	.00090	.00079	.23126
.043	390.600	400.32000	53.92000	2.99330	.17533	-.00051	-.01378	-.00023	.00044	-.00118	.23016
.039	490.670	400.15000	53.77400	2.99210	.16978	.00030	-.01397	-.00043	.00099	.00155	.23047
.028	590.870	400.19000	53.98700	3.00990	.16470	.00143	-.01397	-.00044	.00098	.00224	.22946
-.048	791.830	400.19000	54.15100	3.00130	.16493	.00140	-.01305	-.00043	.00099	.00217	.22938
.002	931.350	400.27000	54.06200	2.99730	.16453	.00140	-.01395	-.00043	.00098	.00220	.22939
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
5.012	6.479	400.19000	53.74900	2.99190	.23935	.02291	-.01329	.00053	.00060	.00349	.23053
5.004	41.089	400.05000	53.94200	2.99410	.23009	.01650	-.01491	-.00009	.00039	.00173	.23136
5.003	91.060	400.20000	54.12200	2.99330	.23093	.00755	-.01459	.00018	.00006	.00225	.23091
5.025	190.690	400.33000	53.33800	2.97530	.20034	.00187	-.01229	-.00045	.00040	.00090	.23034
5.036	290.530	400.30000	53.85300	2.99350	.18251	-.00044	-.01418	-.00025	.00052	-.00103	.23086
5.020	390.560	400.23000	54.09300	2.99330	.17318	.00063	-.01430	-.00028	.00084	.00012	.23063
4.999	590.910	400.23000	54.02300	3.00330	.16609	.00144	-.01409	-.00038	.00096	.00207	.23084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D8A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK017) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	3.000	X =	400.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2711/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.052	325.660	-4.95500	-.00080	2.98280	.01831	-.00836	.03364	.00587	-.00129	.00149
-10.008	349.130	-5.00000	-.00090	2.99730	-.00851	-.01048	.03509	.00523	-.00127	.00184
-10.052	369.810	-5.00100	-.00080	2.99390	-.03836	-.00699	.03257	.00478	-.00126	.00122
-10.009	449.210	-4.99300	-.00070	2.99750	-.14270	-.00177	.02957	.00478	-.00129	.00017
-9.994	489.220	-4.99400	-.00100	2.99430	-.15772	.00407	.02956	.00348	-.00101	.00038
-9.969	568.720	-4.99050	-.00080	2.99720	-.18633	.01008	.03105	.00313	-.00103	.00049
-9.962	688.470	-4.98950	-.00080	2.99300	-.19318	.01145	.03161	.00306	-.00105	.00045
-9.970	789.500	-4.99050	-.00090	2.99460	-.19336	.01145	.03150	.00310	-.00104	.00046
-10.094	1000.100	-4.98900	-.00080	2.99360	-.19336	.01149	.03163	.00306	-.00106	.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2375/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.041	24.790	-4.95803	-.00220	2.98830	-.05435	.04095	.05110	-.00275	.00063	.00024
.016	41.162	-4.95905	-.00110	2.99390	-.07036	.03791	.04874	-.00428	-.00031	.00044
.043	90.522	-4.98081	-.00060	3.00030	-.09219	.02704	.04580	-.00698	-.00079	.00022
.031	141.100	-4.97693	-.00090	2.99110	-.07557	.01891	.04728	-.00688	-.00067	.00003
-.008	191.340	-4.98255	-.00040	2.98060	-.09211	.01377	.04427	-.00464	-.00130	.00005
.030	290.630	-4.98048	-.00040	2.98370	-.13338	.00820	.04517	-.00606	-.00128	.00095
.043	390.600	-4.98335	-.00060	2.99330	-.16132	.01055	.04321	-.00632	-.00117	.00048
.039	490.670	-4.98771	-.00030	2.98210	-.16730	.01185	.04632	-.00642	-.00137	.00104
.028	590.870	-4.98732	-.00030	3.00080	-.17139	.01248	.04656	-.00652	-.00139	.00103
-.048	791.830	-4.98729	-.00030	3.00130	-.17031	.01244	.04646	-.00642	-.00138	.00103
.002	931.350	-4.98736	-.00030	2.98380	-.17119	.01243	.04648	-.00642	-.00138	.00102
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.012	6.479	-4.98483	-.00100	2.99190	-.09975	.03406	.04822	-.00578	-.00042	.00064
5.004	41.089	-4.97094	-.00050	2.99410	-.10737	.02763	.04642	-.00740	-.00104	.00044
5.003	91.060	-4.97508	-.00090	2.98520	-.10715	.01848	.04688	-.00710	-.00077	.00011
5.025	190.690	-4.98492	-.00020	2.97530	-.12932	.01298	.04548	-.00480	-.00140	.00045
5.036	290.530	-4.98323	-.00050	2.98350	-.15518	.01065	.04351	-.00670	-.00120	.00057
5.020	390.560	-4.98761	-.00040	2.99330	-.16415	.01173	.04464	-.00632	-.00124	.00089
4.999	590.910	-4.98726	-.00030	3.00330	-.17133	.01252	.04656	-.00662	-.00133	.00101
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.6000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	3.000	X =	400.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2711/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.052	325.660	400.32000	54.09000	.00554	-.08506	134.65000	.00000	.00000	650.49000	.00000	.00000
-10.008	349.130	400.00000	53.91400	.00023	-.09041	135.55000	.00000	.00000	651.64000	.00000	.00000
-10.052	393.810	400.19000	53.74400	.03900	-.02422	135.52000	.00000	.00000	651.79000	.00000	.00000
-10.009	449.210	400.06000	54.05900	.03742	-.01138	135.32000	.00000	.00000	651.50000	.00000	.00000
-9.994	499.220	400.07000	53.88400	.03595	-.01640	134.93000	.00000	.00000	650.91000	.00000	.00000
-9.959	598.720	399.92000	53.54000	.03238	-.01200	135.34000	.00000	.00000	653.01000	.00000	.00000
-9.962	698.470	400.00000	53.69100	.02781	-.01045	135.24000	.00000	.00000	651.33000	.00000	.00000
-9.970	798.500	400.01000	53.77900	.02382	-.00344	135.18000	.00000	.00000	651.29000	.00000	.00000
-10.094	1000.100	400.20000	53.74800	.01597	.00192	135.36000	.00000	.00000	651.54000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2375/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.041	24.790	399.96000	53.99800			137.25000	.00000	.00000	654.37000	.00000	.00000
.016	41.162	400.16000	53.98300			137.23000	.00000	.00000	654.35000	.00000	.00000
.043	90.622	400.13000	53.94400			141.61000	.00000	.00000	650.90000	.00000	.00000
.031	141.100	400.01000	53.90100			144.11000	.00000	.00000	664.65000	.00000	.00000
-.008	191.340	400.16000	54.02700			145.44000	.00000	.00000	665.64000	.00000	.00000
.030	290.660	400.16000	53.95400			145.47000	.00000	.00000	666.68000	.00000	.00000
.043	390.600	400.32000	53.98000			145.50000	.00000	.00000	666.72000	.00000	.00000
.038	490.670	400.15000	53.77400			145.27000	.00000	.00000	666.38000	.00000	.00000
.028	590.870	400.19000	53.95700			144.80000	.00000	.00000	665.80000	.00000	.00000
-.048	791.820	400.19000	54.15100			144.56000	.00000	.00000	665.32000	.00000	.00000
.002	931.350	400.270	54.08300			144.39000	.00000	.00000	665.07000	.00000	.00000
	GRADIENT	.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.012	6.479	400.19000	53.74900			148.87000	.00000	.00000	671.78000	.00000	.00000
5.004	41.089	400.08000	53.64200			148.54000	.00000	.00000	671.29000	.00000	.00000
5.003	91.060	400.20000	54.12200			147.93000	.00000	.00000	670.35000	.00000	.00000
5.025	190.690	400.33000	53.33500			447.45000	.00000	.00000	669.71000	.00000	.00000
5.036	290.530	400.30000	53.55900			147.00000	.00000	.00000	668.93000	.00000	.00000
5.020	390.560	400.23000	54.09300			146.92000	.00000	.00000	668.85000	.00000	.00000
4.999	590.910	400.26000	54.02300			146.51000	.00000	.00000	668.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK017) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2711/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-10.052	325.660	976.32000	976.32000	87.00000	976.32000	976.12000	71.00000	78.00000	12.87100	99.51600
-10.008	349.130	975.94000	975.94000	87.00000	975.94000	976.12000	71.00000	78.00000	14.66800	99.51600
-10.052	399.810	975.63000	975.63000	87.00000	975.63000	976.12000	71.00000	78.00000	16.81300	99.51600
-10.009	449.210	975.91000	975.91000	87.00000	975.91000	976.12000	71.00000	78.00000	16.45200	99.51600
-9.994	499.220	975.92000	975.92000	87.00000	975.92000	976.12000	71.00000	78.00000	13.70100	99.51600
-9.959	593.720	976.25000	976.25000	87.00000	976.25000	976.12000	71.00000	78.00000	7.37430	99.51600
-9.952	693.470	976.21000	976.21000	87.00000	976.21000	976.12000	71.00000	78.00000	4.78360	99.51600
-9.970	793.500	976.07000	976.07000	87.00000	976.07000	976.12000	71.00000	78.00000	2.92610	99.51600
-10.094	1000.100	975.97000	975.97000	87.00000	975.97000	976.12000	71.00000	78.00000	.61616	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2375/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-.041	24.790	983.61000	983.61000	84.00000	983.61000	983.39000	68.00000	75.00000	-8.21280	99.76800
.016	41.162	984.03000	984.03000	84.00000	984.03000	983.39000	68.00000	75.00000	-8.79020	99.76800
.043	90.522	984.63000	984.63000	84.00000	984.63000	983.39000	68.00000	75.00000	-10.93100	99.76800
.031	141.100	984.32000	984.32000	84.00000	984.32000	983.39000	68.00000	75.00000	-12.79700	99.76800
-.008	191.340	983.33000	983.33000	84.00000	983.33000	983.39000	68.00000	75.00000	-13.36500	99.76800
.030	290.650	981.43000	981.43000	84.00000	981.43000	983.39000	68.00000	75.00000	-12.36200	99.76800
.043	390.600	979.52000	979.52000	84.00000	979.52000	983.39000	68.00000	75.00000	-11.40500	99.76800
.038	490.670	978.03000	978.03000	84.00000	978.03000	983.39000	68.00000	75.00000	-11.11800	99.76800
.028	590.870	976.19000	976.19000	84.00000	976.19000	983.39000	68.00000	75.00000	-11.16200	99.76800
-.048	791.830	974.51000	974.51000	84.00000	974.51000	983.39000	68.00000	75.00000	-11.48200	99.76800
.002	931.350	972.60000	972.60000	84.00000	972.60000	983.39000	68.00000	75.00000	-11.92100	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
5.012	6.479	978.01000	978.01000	84.00000	978.01000	977.76399	70.00000	74.00000	-11.23400	99.76800
5.004	41.089	977.79000	977.79000	84.00000	977.79000	977.76399	70.00000	74.00000	-12.70100	99.76800
5.003	91.060	977.43000	977.43000	84.00000	977.43000	977.76399	70.00000	74.00000	-13.76100	99.76800
5.025	190.690	976.93000	976.93000	84.00000	976.93000	977.76399	70.00000	74.00000	-13.40200	99.76800
5.036	290.530	976.90000	976.90000	84.00000	976.90000	977.76399	70.00000	74.00000	-12.97600	99.76800
5.020	390.560	976.71000	976.71000	84.00000	976.71000	977.76399	70.00000	74.00000	-12.91400	99.76800
4.999	590.910	976.31000	976.31000	84.00000	976.31000	977.76399	70.00000	74.00000	-12.42900	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK017) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2711/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.052	325.660	400.32000	54.09000	-15.05000	2.98801	-.36516	-.02709	-.04192	-.00752	.00117	.12538
-10.008	349.130	400.00000	53.91400	-15.00800	2.98840	-.35109	-.02754	-.03908	-.00814	.00095	.12192
-10.052	399.810	400.19000	53.74400	-15.05300	2.98300	-.29033	-.05826	-.03722	-.00822	.00076	.09802
-10.009	449.210	400.06000	54.05900	-15.00700	2.98381	-.28323	-.05462	-.03438	-.00922	.00074	.09938
-9.994	499.220	400.07000	53.99400	-14.98300	2.98331	-.29181	-.04350	-.03668	-.00792	.00067	.10467
-9.989	598.720	399.93000	53.54000	-14.95900	2.98841	-.31400	-.02040	-.03955	-.00657	.00065	.11425
-9.962	698.470	400.00000	53.99100	-14.95200	2.98421	-.33315	00442	-.03952	-.00633	.00061	.12715
-9.970	798.500	400.01000	53.77800	-14.96000	2.99381	-.34342	.01298	-.03731	-.00726	.00073	.14420
-10.094	1000.100	400.26000	53.74500	-15.08300	2.99481	-.23335	-.03101	-.03517	-.00824	.00036	.10642
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2375/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.041	24.790	399.96000	53.98900	-4.99710	2.98510	-.16206	-.05086	-.05402	-.01038	.00084	.10472
.016	41.162	400.16000	53.98300	-4.94330	2.99581	-.15595	-.04627	-.05153	-.01052	.00071	.10355
.043	90.522	400.13000	53.94400	-4.92700	2.99976	-.15979	-.03223	-.03795	-.01355	.00035	.10282
.031	141.100	400.01000	53.38400	-4.94630	2.99021	-.15835	-.02684	-.03365	-.01578	.00050	.10008
-.008	191.340	400.16000	54.02700	-4.99010	2.99350	-.14062	-.03240	-.03485	-.01347	.00062	.09451
.030	290.650	400.16000	53.95400	-4.95300	2.99531	-.12956	-.02350	-.03930	-.00895	.00077	.09176
.043	390.600	400.32000	53.93000	-4.94590	2.99271	-.13522	-.00551	-.04061	-.00746	.00058	.09808
.038	490.670	400.15000	53.77400	-4.94990	2.99181	-.13832	.01056	-.03777	-.00716	.00048	.10569
.028	590.870	400.19000	53.95700	-4.95920	3.00051	-.13458	.02030	-.03309	-.00936	.00056	.11426
-.048	791.880	400.19000	54.15100	-5.03520	3.00101	-.06357	-.01519	-.03162	-.01070	.00033	.08990
.002	931.350	400.27000	54.06300	-4.98520	2.99551	-.06266	-.01499	-.03136	-.01039	.00035	.09304
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.012	6.479	400.19000	53.74900	.04767	2.99091	-.09200	-.02312	-.03804	-.01460	.00038	.09877
5.004	41.089	400.08000	53.64200	.03295	2.99361	-.08484	-.02047	-.03378	-.01613	.00045	.09492
5.003	91.060	400.20000	54.12200	.02353	2.99431	-.07300	-.02068	-.03577	-.01481	.00051	.09031
5.025	190.690	400.33000	53.35500	.04058	2.97511	-.06268	-.01103	-.03779	-.00951	.00064	.09473
5.036	290.530	400.30000	53.56900	.04807	2.99601	-.07112	.00625	-.03650	-.00802	.00051	.09632
5.020	390.560	400.23000	54.09800	.03219	2.99891	-.06871	.02053	-.03386	-.00842	.00041	.10162
4.999	590.910	400.26000	54.02300	.01164	3.00351	-.02458	.01220	-.02880	-.01139	.00024	.09507
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER 04RC1) W/ET SEPARATING (RVK018) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1083.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290 3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	600.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2712/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.025	324.920	600.15000	54.00700	2.99770	.2908[illegible]	-.01756	-.00263	-.00032	.00214	-.00692	.22915
-9.997	349.710	600.14000	54.32000	3.00340	.2841[illegible]	-.01803	-.00265	-.00031	.00143	-.00871	.22976
-10.002	399.760	600.14000	53.98400	2.99750	.2128[illegible]	-.01540	-.00298	-.00029	.00051	-.01207	.22973
-10.020	449.920	600.19000	54.23900	3.00020	.1793[illegible]	-.01042	-.00336	-.00016	.00010	-.01406	.22998
-10.045	500.300	600.33000	54.04100	2.99380	.1600[illegible]	-.00359	-.00407	-.00007	.00044	-.01311	.23033
-10.059	600.330	600.33000	54.21100	3.00120	.1355[illegible]	.00054	-.00427	-.00009	.00041	-.01163	.22970
-10.063	700.460	600.32000	53.74400	2.99400	.1350[illegible]	.00067	-.00425	-.00011	.00041	-.01168	.22954
-10.002	799.930	600.32000	54.03300	2.99310	.1351[illegible]	.00067	-.00413	-.00009	.00040	-.01165	.22990
-9.969	993.640	600.12000	53.92800	2.99480	.1351[illegible]	.00059	-.00420	-.00011	.00041	-.01169	.22903
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK018) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	600.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2712/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.025	324.920	-4.99900	-.00080	2.99770	-.[illegible]3778	-.00676	.03643	.00465	-.00125	.00219
-9.997	349.710	-4.99970	-.00080	3.00340	-.[illegible]6378	-.00725	.03454	.00462	-.00124	.00148
-10.002	399.760	-5.00000	-.00080	2.99750	-.11520	-.00462	.03120	.00429	-.00121	.00056
-10.020	449.920	-4.99700	-.00090	3.00020	-.14932	.00038	.02928	.00393	-.00108	.00014
-10.045	500.300	-4.99200	-.00090	2.99380	-.15924	.00723	.03031	.00323	-.00100	.00049
-10.059	600.330	-4.99000	-.00080	3.00120	-.15287	.01133	.03168	.00301	-.00102	.00046
-10.063	700.460	-4.99300	-.00060	2.99400	-.19386	.01147	.03169	.00303	-.00104	.00046
-10.002	799.930	-4.99000	-.00090	2.99310	-.19353	.01146	.03169	.00315	-.00102	.00045
-9.969	993.640	-4.99320	-.00080	2.99480	-.19387	.01150	.03170	.00309	-.00103	.00045
	GRADIENT	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK018) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	600.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2712/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.025	324.920	600.15000	54.00700	-.00359	-.10185	435.03000	.00000	.00000	651.07000	.00000	.00000
-9.997	349.710	600.14000	54.32000	-.00861	-.08460	434.06000	.00000	.00000	649.61000	.00000	.00000
-10.002	399.760	600.14000	53.90400	.04739	.07716	434.23000	.00000	.00000	649.87000	.00000	.00000
-10.020	449.920	600.19000	54.23900	.01061	.03054	435.07000	.00000	.00000	651.11000	.00000	.00000
-10.045	500.300	600.33000	54.04100	.00902	.01554	435.82000	.00000	.00000	652.24000	.00000	.00000
-10.059	600.330	600.33000	54.21100	.01093	.01367	434.77000	.00000	.00000	650.67000	.00000	.00000
-10.063	700.460	600.33000	53.74400	.01178	.01239	435.31000	.00000	.00000	651.48000	.00000	.00000
-10.002	799.960	600.32000	54.03200	.01289	.01175	435.02000	.00000	.00000	651.05000	.00000	.00000
-9.969	998.840	600.12000	53.92800	.01508	.00936	435.50000	.00000	.00000	651.76000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK018) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	600.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2712/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLFBAL	TB1	TB2	DT	T
-10.025	324.920	976.22000	976.22000	87.00000	976.22000	976.09000	71.00000	78.00000	11.53700	99.39000
-9.997	349.710	976.43000	976.43000	87.00000	976.43000	976.09000	71.00000	78.00000	6.73250	99.39000
-10.002	399.760	976.34000	976.34000	87.00000	976.34000	976.09000	71.00000	78.00000	-1.80290	99.39000
-10.020	449.920	976.29000	976.29000	87.00000	976.29000	976.09000	71.00000	78.00000	-5.72130	99.39000
-10.045	500.300	976.54000	976.54000	87.00000	976.54000	976.09000	71.00000	78.00000	-5.77800	99.39000
-10.059	600.330	976.10000	976.10000	87.00000	976.10000	976.09000	71.00000	78.00000	-5.30710	99.39000
-10.063	700.460	976.36000	976.36000	87.00000	976.36000	976.09000	71.00000	78.00000	-4.32580	99.39000
-10.002	799.960	976.19000	976.19000	87.00000	976.19000	976.09000	71.00000	78.00000	-3.22620	99.39000
-9.969	998.840	976.30000	976.30000	87.00000	976.30000	976.09000	71.00000	78.00000	-1.97710	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK018) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	3.000	X =	600.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2712/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.025	324.920	600.15000	54.00700	-15.02400	2.99990	-.35739	-.04457	-.04826	-.00562	.00068	.12400
-9.997	349.710	600.14000	54.32000	-14.99700	3.00230	-.35883	-.04128	-.04856	-.00939	.00060	.12277
-10.002	393.760	600.14000	53.93400	-15.00200	2.99970	-.36334	-.03840	-.04270	-.00769	.00074	.11400
-10.020	449.920	600.15000	54.25000	-15.01700	2.99950	-.36034	-.03018	-.04132	-.00744	.00077	.10857
-10.045	500.300	600.23000	54.04100	-15.03700	2.99730	-.29508	-.03472	-.03375	-.00781	.00074	.10575
-10.059	600.330	600.35000	54.21100	-15.04000	3.00040	-.30156	-.03767	-.04109	-.00708	.00086	.10911
-10.053	700.480	600.32000	53.74400	-15.03000	2.99830	-.32102	-.01462	-.04050	-.00226	.00053	.11642
-10.002	799.930	600.33000	54.03200	-14.99800	2.99220	-.33075	.00008	-.03834	-.00334	.00059	.13105
-9.969	899.840	600.12000	53.93000	-14.96900	2.99400	-.27780	-.00416	-.03509	-.00818	.00039	.13290
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2787/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.009	624.900	.05225	-.17390	-.00888	.51328	-.01592	-.03467	-.00140	.00086	-.00014	.23675
-19.957	693.630	-.14218	.16434	-.00074	.46711	-.03130	-.03499	-.00127	.00144	-.00144	.23829
-19.938	799.370	-.31654	-.30000	-.00384	.39323	-.03560	-.03159	-.00198	.00396	-.00828	.23555
-20.040	999.440	.03594	-.11018	-.00515	.19433	-.00791	-.03462	-.00111	.00085	-.00784	.23698
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(HRC1) W/ET SEPARATING (RVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2791/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-15.007	474.570	.03860	-.01386	-.00423	.48016	-.01418	-.03478	-.00151	-.00002	.00190	.23387
-15.029	499.570	.19695	-.77330	-.01294	.43760	-.02006	-.03369	-.00188	.00129	.00373	.23337
-14.980	548.890	.04962	-.42606	-.00748	.40478	-.03226	-.03259	-.00167	.00301	-.00021	.23363
-14.981	598.960	.02378	-.27636	-.00803	.34482	-.03252	-.03043	-.00095	.00247	-.00705	.23329
-14.948	698.470	-.14801	-.15552	-.00496	.27691	-.02707	-.02949	-.00001	.00190	-.01522	.23370
-15.011	799.910	-.06535	.05745	.00048	.21900	-.01598	-.03108	-.00006	.00124	-.01112	.23393
	999.370	.08346	.22059	.00064	.15190	-.00230	-.03576	-.00075	.00005	-.00205	.23360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.010	324.510	.13816	-.35082	-.00936	.39088	-.00325	-.04050	-.00089	.00066	.00381	.23371
-10.033	349.650	.17765	.05770	-.00393	.35538	-.00303	-.03794	-.00098	.00010	.00087	.23392
-10.005	399.090	.08574	.30322	.00169	.32174	-.01611	-.03486	-.00161	.00119	-.00094	.23383
-9.982	448.880	.03095	.33329	.00154	.28368	-.02202	-.03075	-.00079	.00189	-.00391	.23383
-9.988	499.030	-.01781	-.24221	-.00706	.23748	-.02078	-.03162	.00030	.00292	-.01087	.23353
-9.965	598.680	.07245	-.14370	-.00491	.19772	-.01087	-.03181	-.00014	.00071	-.00832	.23377
-10.007	699.120	.11568	.06839	.00161	.16275	-.00480	-.03550	-.00079	.00002	-.00298	.23374
-10.081	800.260	.41656	-.53557	-.01182	.14939	-.00242	-.03580	-.00075	.00005	-.00106	.23390
-10.033	999.620	.30224	.01269	-.00302	.14893	-.00241	-.03578	-.00076	.00003	-.00089	.23398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2799/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.506	199.480	.02774	-.12149	-.00613	.32081	.01265	-.04001	-.00135	.00063	.00667	.23392
-5.517	249.120	.12062	-.26090	-.00932	.27051	.00309	-.03956	-.00136	.00031	-.00004	.23392
-5.493	299.010	.09512	-.16090	-.00486	.25183	-.00406	-.03820	-.00098	.00032	-.00230	.23357
-5.467	398.460	.11163	.16527	-.00365	.21650	-.01054	-.03381	-.00148	.00120	-.00241	.23374
-5.470	499.630	.13681	-.19229	-.00447	.16912	-.00691	-.03537	-.00066	.00007	-.00312	.23374
-5.513	599.020	.11420	.29224	.00383	.15418	-.00351	-.03564	-.00077	.00009	-.00065	.23392
-5.571	700.020	.23490	-.64449	-.01385	.14658	-.00235	-.03579	-.00077	.00003	.00011	.23380
-5.525	799.280	.29865	-.36786	-.00758	.14298	-.00237	-.03596	-.00080	.00001	.00018	.23409
-5.516	819.210	.37929	.23511	-.00064	.14858	-.00234	-.03597	-.00078	.00002	.00008	.23415
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (1A22),ORBITER(4R21) W/ET SEPARATING (RVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA* =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2486/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.001	19.458	.21323	-.42924	-.01072	.17779	.00767	-.04212	-.00106	-.00045	.01854	.23493
-.014	50.059	.12395	.19017	-.00190	.19540	.01186	-.04634	-.00084	-.00014	.01827	.23438
.012	99.486	.14517	.04253	-.00386	.22195	.01429	-.04422	.00020	.00024	.00977	.23464
.019	149.150	.09473	-.06928	-.00428	.22657	.00897	-.04267	.00011	.00038	.00525	.23329
.018	198.830	.04834	.17435	-.00280	.20052	.00450	-.04311	.00039	.00056	.00009	.23497
.038	298.670	.09932	.10493	-.00329	.19701	-.00205	-.03939	-.00004	.00052	.00458	.23520
-.009	398.730	.10694	-.40176	-.00489	.17592	-.00602	-.03685	.00072	.00060	.00155	.23434
-.010	499.270	.16204	-.06237	-.00079	.16198	-.00523	-.04034	.00062	.00040	.00109	.23496
-.043	599.960	.20894	-.02658	-.00399	.14939	-.00271	-.03792	.00077	-.00029	.00249	.23496
.001	799.260	.15482	.14841	-.00182	.14910	-.00265	-.03796	.00076	-.00029	.00246	.23423
.001	939.210	.16089	.05518	-.00299	.14997	-.00269	-.03788	.00077	-.00030	.00243	.23464
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.957	-49.135	.21718	2.52260	.05531	.14403	-.00250	-.03722	-.00052	-.00051	.01134	.23398
4.971	15.206	.11877	.16335	-.00213	.18747	.00430	-.04145	-.00164	-.00031	.01597	.23451
4.993	49.405	.16934	.17673	-.00235	.19324	.00544	-.03516	-.00103	-.00011	.00663	.23784
5.011	99.173	.19430	-.43341	-.00807	.20055	.00793	-.04160	-.00012	.00046	.00270	.23463
5.026	198.390	.30313	.03371	-.00200	.19212	.00144	-.04221	.00051	.00054	.00132	.23449
5.023	293.720	.27340	.10056	.00315	.18950	-.00333	-.03905	.00058	.00095	.00082	.23464
4.985	399.320	.23834	.11472	-.00090	.17042	-.00571	-.04043	.00083	.00016	-.00195	.23447
4.975	599.580	.23725	-.10013	-.00651	.15444	-.00240	-.03803	.00068	-.00031	-.00010	.23377
	GRADIENT	.00781	.01074	-.00014	.01233	.00028	-.00273	-.00011	-.00002	.00105	.01542

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK019) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2787/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.009	624.900	-4.98700	3.00098	-.00698	.17484	-.00480	.04449	-.02717	-.00235	.00091
-19.957	693.630	-5.00300	3.00054	-.00074	.12998	-.02072	.04304	-.02752	-.00222	.00148
-19.938	798.370	-5.00700	3.00134	-.00654	.05472	-.02148	.03637	-.02409	-.00293	.00391
-20.040	999.440	-4.99400	3.00075	-.00615	-.14358	.00320	.03673	-.02714	-.00207	.00089
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2791/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.007	474.570	-4.98700	3.00113	-.00423	.14764	-.00325	.04576	-.02742	-.00245	.00002
-15.029	499.570	-4.98400	3.00144	-.01294	.10530	-.00914	.04756	-.02632	-.00282	.00133
-14.980	548.890	-5.00500	3.00108	-.00748	.07262	-.02134	.04360	-.02523	-.00281	.00305
-14.981	598.960	-5.01000	3.00023	-.00503	.01351	-.02163	.03564	-.02309	-.00189	.00251
-14.948	698.470	-5.00700	2.99916	-.00496	-.05415	-.01619	.02844	-.02215	-.00094	.00194
-14.983	798.910	-5.00000	2.99842	.00048	-.11227	-.00509	.03257	-.02374	-.00093	.00128
-15.011	899.370	-4.99100	3.00046	.00084	-.17908	.00858	.04160	-.02842	-.00168	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.010	324.510	-4.98100	3.00076	-.00936	.06249	.00754	.04711	-.03322	-.00181	.00070
-10.033	349.650	-4.98500	3.00073	-.00383	.02705	.00475	.04417	-.03066	-.00191	.00014
-10.005	399.090	-4.98300	3.00122	.00168	-.00668	-.00531	.04237	-.02758	-.00254	.00123
-9.982	448.850	-5.00330	3.00016	.00164	-.04438	-.01124	.03935	-.02348	-.00172	.00193
-9.988	499.030	-5.00330	2.99956	-.00706	-.09048	-.01001	.03238	-.02436	-.00062	.00296
-9.965	598.680	-4.99700	2.99951	-.00491	-.13000	-.00010	.03490	-.02455	-.00107	.00076
-10.007	699.120	-4.99300	3.00049	.00161	-.16502	.00597	.04025	-.02834	-.00171	.00007
-10.081	800.260	-4.99200	3.00042	-.01182	-.17823	.00834	.04215	-.02654	-.00167	.00009
-10.033	999.620	-4.99100	3.00042	-.00302	-.17853	.00834	.04230	-.02853	-.00168	.00007
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2799/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.506	199.480	-4.98950	3.00143	-.00613	-.00671	.02342	.04987	-.03275	-.00227	.00067
-5.517	249.120	-4.98040	3.00132	-.00532	-.05696	.01365	.04315	-.03230	-.00229	.00035
-5.493	299.010	-4.98930	3.00076	-.00486	-.07521	.00569	.04083	-.03095	-.00190	.00037
-5.467	348.460	-4.98810	3.00115	-.00365	-.11104	.00022	.04079	-.02656	-.00240	.00125
-5.470	498.630	-4.98430	3.00047	-.00447	-.15804	.00394	.04003	-.02812	-.00178	.00012
-5.513	599.020	-4.98270	3.00047	.00393	-.17284	.00714	.04249	-.02839	-.00170	.00013
-5.571	700.020	-4.99130	3.00045	-.01395	-.17849	.00039	.04325	-.02654	-.00169	.00007
-5.525	799.200	-4.99100	3.00048	-.00758	-.17832	.00838	.04335	-.02870	-.00172	.00006
-5.516	819.210	-4.99150	3.00044	-.00064	-.17659	.00841	.04323	-.02872	-.00170	.00006
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2486/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.001	19.458	-4.98089	3.00102	-.01072	-.14951	.01842	.06170	-.03487	-.00198	-.00040
-.014	50.059	-4.97823	3.00090	-.00190	-.13174	.02261	.05141	-.03909	-.00176	-.00009
.012	99.486	-4.97861	2.99976	-.00336	-.10808	.02504	.05290	-.03597	-.00072	.00028
.019	149.150	-4.97725	2.99978	-.00428	-.09935	.01970	.04831	-.03544	-.00082	.00042
.018	198.830	-4.97859	2.99940	-.00230	-.12637	.01524	.04320	-.03587	-.00053	.00060
.038	298.670	-4.98088	2.99979	-.00329	-.12971	.00858	.04767	-.03214	-.00096	.00056
-.009	398.730	-4.98545	2.99979	-.00429	-.15063	.00471	.04462	-.03141	-.00020	.00065
-.010	499.270	-4.98043	2.99999	-.00079	-.16433	.00349	.04413	-.03311	-.00030	.00045
-.043	599.930	-4.98105	2.99979	-.00339	-.17873	.00000	.04550	-.03069	-.00015	-.00025
.001	799.230	-4.98164	2.99982	-.00182	-.17831	.00305	.04544	-.03074	-.00016	-.00025
.001	959.210	-4.98164	2.99979	-.00239	-.17554	.00505	.04554	-.03084	-.00015	-.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.957	-49.135	-4.99182	3.00019	.05531	-.18894	.00937	.05499	-.02988	-.00145	-.00046
4.971	15.206	-4.98376	3.00163	-.00213	-.14447	.01521	.05374	-.03409	-.00258	-.00027
4.993	49.405	-4.97835	3.00035	-.00235	-.13370	.01935	.05040	-.02281	-.00197	-.00006
5.011	99.173	-4.97833	2.99897	-.00207	-.13129	.01874	.04648	-.03425	-.00106	.00050
5.026	198.390	-4.98801	2.99220	-.00200	-.13974	.01234	.04509	-.03466	-.00042	.00059
5.023	298.720	-4.99105	2.99395	.00315	-.14398	.00638	.04463	-.03069	-.00035	.00100
4.985	399.320	-4.98349	2.99330	-.00090	-.16194	.00522	.04188	-.03307	-.00011	.00020
4.975	599.580	-4.99122	2.99371	-.00561	-.17828	.00633	.04379	-.03066	-.00006	-.00027
	GRADIENT	-.32775	.19740	-.00014	-.00950	.00100	.00393	-.00224	-.00017	-.00002

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375[illegible]000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2787/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.009	624.900	.05225	-.17380	-.00875	-.16534	447.99000	.00000	.00000	670.45000	.00000	.00000
-19.957	698.630	-.14218	.16434	-.04299	-.21134	446.38000	.00000	.00000	668.05000	.00000	.00000
-19.938	798.370	-.31654	-.30000	.04976	-.09153	448.09000	.00000	.00000	670.60000	.00000	.00000
-20.040	999.440	.03594	-.11018	.04030	-.07932	447.30000	.00000	.00000	669.42000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2791/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.007	474.570	.03650	-.01386	-.06230	-.26811	440.13000	.00000	.00000	658.73000	.00000	.00000
-15.029	499.570	.19085	-.77330	-.04084	-.23778	439.87000	.00000	.00000	658.38000	.00000	.00000
-14.990	548.890	.04932	-.42806	.00091	-.19011	439.62000	.00000	.00000	658.03000	.00000	.00000
-14.981	598.960	.02378	-.27635	.20906	.07117	438.55000	.00000	.00000	656.33000	.00000	.00000
-14.948	698.470	-.14801	-.15552	.21465	.11417	438.23000	.00000	.00000	655.84000	.00000	.00000
-14.983	798.910	-.06535	.05745	.04825	-.10839	438.50000	.00000	.00000	656.26000	.00000	.00000
-15.011	999.370	.08946	.22059	.05480	-.06813	438.13000	.00000	.00000	655.69000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.010	324.510	.13816	-.35082	-.14407	-.38210	434.68000	.00000	.00000	650.54000	.00000	.00000
-10.033	349.650	.17765	.06770	.02534	-.15291	434.61000	.00000	.00000	650.43000	.00000	.00000
-10.005	399.090	.05574	.30322	.02647	-.14130	434.73000	.00000	.00000	650.61000	.00000	.00000
-9.992	448.860	.03055	.33829	.02587	-.12817	434.24000	.00000	.00000	649.88000	.00000	.00000
-9.988	499.030	-.01781	-.24221	.02677	-.11163	434.12000	.00000	.00000	649.70000	.00000	.00000
-9.995	598.690	.07245	-.14370	.04475	-.06114	433.60000	.00000	.00000	649.21000	.00000	.00000
-10.007	699.120	.11858	.03839	.04649	-.05287	433.68000	.00000	.00000	649.33000	.00000	.00000
-10.081	800.260	.41656	-.53657	.04321	-.04817	433.67000	.00000	.00000	649.03000	.00000	.00000
-10.033	999.620	.30224	.01269	.03927	-.04083	433.46000	.00000	.00000	648.71000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2799/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.505	199.480	.02774	-.12149	.00839	-.136?6	433.55000	.00000	.00000	648.84000	.00000	.00000
-5.517	249.120	.12062	-.26090	.02304	-.12365	433.47000	.00000	.00000	648.72000	.00000	.00000
-5.493	299.010	.09512	-.16090	.00281	-.12161	432.90000	.00000	.00000	647.87000	.00000	.00000
-5.467	398.460	.11163	.16527	.01989	-.076?3	433.56000	.00000	.00000	648.86000	.00000	.00000
-5.470	498.630	.13681	-.19229	.03269	-.04305	433.06000	.00000	.00000	648.11000	.00000	.00000
-5.513	599.020	.11420	.29224	.03894	-.035?7	433.00000	.00000	.00000	648.03000	.00000	.00000
-5.571	700.020	.23490	-.84449	.03542	-.03103	432.93000	.00000	.00000	647.94000	.00000	.00000
-5.525	799.280	.29335	-.36786	.03287	-.028?5	433.24000	.00000	.00000	648.38000	.00000	.00000
-5.516	819.210	.37929	.23511	.03070	-.023?7	433.07000	.00000	.00000	648.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2486/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.001	19.458	.21323	-.42924	-.00707	-.102?4	433.24000	.00000	.00000	648.38000	.00000	.00000
-.014	50.059	.12395	.15017	.03916	-.021?2	433.04000	.00000	.00000	648.06000	.00000	.00000
.012	99.496	.14817	.04833	.02834	-.051?3	432.80000	.00000	.00000	647.83000	.00000	.00000
.019	149.150	.09473	-.05838	-.00293	-.097?0	432.21000	.00000	.00000	646.84000	.00000	.00000
.018	198.630	.04934	.17435	.02828	-.042?0	432.70000	.00000	.00000	647.57000	.00000	.00000
.038	298.670	.05332	.10493	.02680	-.041?5	432.47000	.00000	.00000	647.23000	.00000	.00000
-.009	398.730	.10694	-.40176	.00356	-.070?4	432.23000	.00000	.00000	646.91000	.00000	.00000
-.010	499.270	.16204	-.08237	.02756	-.020?2	431.93000	.00000	.00000	646.42000	.00000	.00000
-.043	599.930	.20034	-.02858	.02518	-.022?8	431.63000	.00000	.00000	646.04000	.00000	.00000
.001	799.260	.15462	.14041	.02343	-.027?7	431.40000	.00000	.00000	645.62000	.00000	.00000
.001	939.210	.16083	.05518	.02250	-.027?9	432.73000	.00000	.00000	647.61000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.957	-49.135	.21718	2.52260	.01786	-.014?4	438.11000	.00000	.00000	655.67000	.00000	.00000
4.971	15.206	.11877	.16335	.01894	-.010?4	439.33000	.00000	.00000	657.53000	.00000	.00000
4.993	49.405	.16934	.17673	-.01536	-.053?2	439.38000	.00000	.00000	657.57000	.00000	.00000
5.011	99.173	.19430	-.43341	.01879	-.003?3	439.38000	.00000	.00000	657.58000	.00000	.00000
5.026	198.390	.30813	.03371	.01911	-.015?8	439.28000	.00000	.00000	657.41000	.00000	.00000
5.023	298.720	.27340	.10656	.00281	-.029?4	439.70000	.00000	.00000	658.05000	.00000	.00000
4.985	399.320	.23834	.11472	.01175	-.010?7	439.94000	.00000	.00000	658.41000	.00000	.00000
4.975	599.580	.23725	-.10013	.01585	-.008?7	440.43000	.00000	.00000	659.14000	.00000	.00000
	GRADIENT	.00781	.01074	.00125	-.000?0	28.69583	.00000	.00000	43.24477	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2787/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	FS3	DLPBAL	TB1	TB2	DT	T
-20.009	624.900	984.51000	984.51000	86.00000	984.51000	984.31000	87.00000	76.00000	24.64400	99.76800
-19.957	680.630	981.48000	981.48000	86.00000	981.48000	984.31000	87.00000	76.00000	26.50200	99.76800
-19.938	780.370	985.22000	985.22000	86.00000	985.22000	984.31000	87.00000	76.00000	35.62400	99.76800
-20.040	939.440	984.40000	984.40000	86.00000	984.40000	984.31000	87.00000	76.00000	36.38000	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2791/ 0 RN/L = .68 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	FS3	DLPBAL	TB1	TB2	DT	T
-15.007	474.570	978.00000	978.00000	85.00000	978.00000	977.78000	86.00000	77.00000	23.53600	99.64200
-15.029	499.570	977.64000	977.64000	85.00000	977.64000	977.78000	86.00000	77.00000	24.83800	99.64200
-14.990	549.820	977.88000	977.88000	85.00000	977.88000	977.78000	86.00000	77.00000	24.87800	99.64200
-14.981	603.030	977.88000	977.88000	85.00000	977.88000	977.78000	86.00000	77.00000	25.57200	99.64200
-14.948	699.470	978.03000	978.03000	85.00000	978.03000	977.78000	86.00000	77.00000	26.70700	99.64200
-14.983	799.910	977.71000	977.71000	85.00000	977.71000	977.78000	86.00000	77.00000	27.12900	99.64200
-15.011	909.370	978.32000	978.32000	85.00000	978.32000	977.78000	86.00000	77.00000	17.75000	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .68 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	FS3	DLPBAL	TB1	TB2	DT	T
-10.010	324.510	979.27000	979.27000	84.00000	979.27000	979.03000	86.00000	77.00000	30.81600	99.64200
-10.033	349.830	979.10000	979.10000	84.00000	979.10000	979.03000	86.00000	77.00000	27.16500	99.64200
-10.005	399.080	979.37000	979.37000	84.00000	979.37000	979.08000	86.00000	77.00000	22.39200	99.64200
-9.932	448.880	979.23000	979.23000	84.00000	979.23000	979.03000	86.00000	77.00000	21.77200	99.64200
-9.968	499.030	979.44000	979.44000	84.00000	979.44000	979.08000	86.00000	77.00000	20.00000	99.64200
-9.965	599.630	979.19000	979.19000	84.00000	979.19000	979.08000	86.00000	77.00000	16.68500	99.64200
-10.007	609.120	979.37000	979.37000	84.00000	979.37000	979.03000	86.00000	77.00000	12.83700	99.64200
-10.081	800.820	978.91000	978.91000	84.00000	978.91000	979.03000	86.00000	77.00000	9.35030	99.64200
-10.033	959.620	979.32000	979.32000	84.00000	979.32000	979.03000	86.00000	77.00000	6.23610	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK019) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.0000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2799/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-5.506	199.480	980.06000	980.06000	83.00000	980.06000	979.85000	85.00000	77.00000	24.62800	99.76800
-5.517	249.120	979.85000	979.85000	83.00000	979.85000	979.85000	85.00000	77.00000	22.24900	99.76800
-5.493	299.010	979.65000	979.65000	83.00000	979.65000	979.85000	85.00000	77.00000	19.41900	99.76800
-5.467	348.460	979.62000	979.62000	83.00000	979.62000	979.85000	85.00000	77.00000	16.23600	99.76800
-5.470	498.630	979.91000	979.91000	83.00000	979.91000	979.85000	85.00000	77.00000	13.28000	99.76800
-5.513	599.020	979.79000	979.79000	83.00000	979.79000	979.85000	85.00000	77.00000	10.46700	99.76800
-5.571	700.020	979.69000	979.69000	83.00000	979.69000	979.85000	85.00000	77.00000	8.24730	99.76800
-5.525	799.280	979.85000	979.85000	83.00000	979.85000	979.85000	85.00000	77.00000	6.26270	99.76800
-5.516	819.210	979.94000	979.94000	83.00000	979.94000	979.85000	85.00000	77.00000	4.92880	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2488/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-.001	19.458	977.00000	977.00000	79.00000	977.00000	976.78000	65.00000	73.00000	-2.77710	99.89400
-.014	50.059	977.02000	977.02000	79.00000	977.02000	976.78000	65.00000	73.00000	-.25946	99.89400
.012	99.486	976.69000	976.69000	79.00000	976.69000	976.78000	65.00000	73.00000	-.19467	99.89400
.019	149.150	976.11000	976.11000	79.00000	976.11000	976.78000	65.00000	73.00000	-1.57680	99.89400
.018	193.830	976.23000	976.23000	79.00000	976.23000	976.78000	65.00000	73.00000	-2.24220	99.89400
.038	248.670	976.70000	976.70000	79.00000	976.70000	976.78000	65.00000	73.00000	-.20243	99.89400
-.009	398.730	976.69000	976.69000	79.00000	976.69000	976.78000	65.00000	73.00000	1.08160	99.89400
-.010	499.270	976.91000	976.91000	79.00000	976.91000	976.78000	65.00000	73.00000	1.77180	99.89400
-.043	599.930	976.82000	976.82000	79.00000	976.82000	976.78000	65.00000	73.00000	1.71120	99.89400
.001	759.280	976.83000	976.83000	79.00000	976.83000	976.78000	65.00000	73.00000	1.16300	99.89400
.001	933.210	976.80000	976.80000	79.00000	976.80000	976.78000	65.00000	73.00000	.46781	99.89400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
4.957	-49.135	976.36000	976.36000	81.00000	976.36000	976.14999	64.00000	73.00000	-4.04360	99.89400
4.971	15.206	975.80000	975.80000	81.00000	975.80000	976.14999	64.00000	73.00000	-4.21960	99.89400
4.933	49.405	977.25000	977.25000	81.00000	977.25000	976.14999	64.00000	73.00000	-4.47660	99.89400
5.011	99.173	977.27000	977.27000	81.00000	977.27000	976.14999	64.00000	73.00000	-4.36750	99.89400
5.026	198.390	977.50000	977.50000	81.00000	977.50000	976.14999	64.00000	73.00000	-4.42160	99.89400
5.023	298.720	977.47000	977.47000	81.00000	977.47000	976.14999	64.00000	73.00000	-3.61250	99.89400
4.985	399.320	977.04000	977.04000	81.00000	977.04000	976.14999	64.00000	73.00000	-3.01890	99.89400
4.975	598.580	977.14000	977.14000	81.00000	977.14000	976.14999	64.00000	73.00000	-2.53240	99.89400
	GRADIENT	64.17204	64.17204	5.32684	64.17204	64.19505	4.20686	4.80074	-.27749	6.56938

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RCI) (AVK019) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2787/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.009	624.900	.05225	-.17380	-24.99600	2.9940(	-.53666	-.03337	-.03867	-.00809	.00084	.11753
-19.957	698.630	-.14218	.16434	-24.98000	2.9999(	-.55730	-.01494	-.03786	-.00833	.00088	.13345
-19.938	798.370	-.31654	-.30000	-24.94500	2.9928(	-.60540	.02495	-.03762	-.00832	.00095	.16384
-20.040	999.440	.03594	-.11018	-25.03400	2.9946(	-.54070	.00501	-.03970	-.00715	.00085	.15838
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2791/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.007	474.570	.03850	-.01386	-19.99400	2.9939(	-.43574	-.02051	-.03887	-.00719	.00083	.11349
-15.029	499.570	.19585	-.77330	-20.02300	2.9985(	-.40282	-.03654	-.03746	-.00805	.00064	.10849
-14.980	548.890	.04932	-.42606	-19.98300	2.9936(	-.41136	-.02755	-.03732	-.00813	.00058	.11849
-14.981	598.960	.02378	-.27636	-19.99100	2.9922(	-.42991	-.01152	-.03770	-.00760	.00057	.12670
-14.948	699.470	-.14801	-.15552	-19.96500	2.9942(	-.46684	.02239	-.03755	-.00778	.00066	.15325
-14.983	799.910	-.05535	.05745	-19.98300	2.9939(	-.47091	.03748	-.03497	-.00909	.00092	.17246
-15.011	999.370	.03546	.22059	-20.00200	3.0013(	-.32559	-.04239	-.03756	-.00876	.00045	.12275
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.010	324.510	.13815	-.35082	-14.99100	2.9914(	-.33293	-.01366	-.03593	-.00885	.00061	.11406
-10.033	349.650	.17765	.06770	-15.01600	2.9939(	-.30702	-.02757	-.03733	-.00807	.00054	.10503
-10.005	399.090	.06374	.30322	-15.00100	3.0029(	-.28468	-.02983	-.03705	-.00934	.00044	.10562
-9.992	448.650	.03065	.33829	-14.99500	3.0018(	-.30883	-.01659	-.03754	-.00777	.00041	.11243
-9.988	499.030	-.01781	-.24221	-14.99200	2.9919(	-.31650	-.00618	-.03699	-.00738	.00038	.12032
-9.965	598.680	.07245	-.14370	-14.96200	2.9947(	-.34241	.01947	-.03547	-.00774	.00041	.14082
-10.007	699.120	.11568	.06839	-15.00000	3.0021(	-.32419	.02030	-.03279	-.00916	.00052	.14709
-10.081	800.260	.41856	-.53657	-15.07300	2.9986(	-.29374	-.02201	-.03415	-.00800	.00022	.11340
-10.033	999.620	.30224	.01269	-15.02400	2.9974(	-.21875	-.03989	-.03378	-.00812	.00036	.11089
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK019) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2799/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.506	199.480	.02774	-.12149	-10.47500	2.99530	-.2[illegible].92	-.01185	-.03082	-.01004	.00045	.11340
-5.517	249.120	.12062	-.26090	-10.49700	2.99300	-.21548	-.02521	-.03454	-.00875	.00031	.09983
-5.493	299.010	.09512	-.16090	-10.48200	2.99590	-.21382	-.02118	-.03495	-.00838	.00030	.10002
-5.467	398.460	.11163	-.16527	-10.46300	2.99750	-.22885	-.00237	-.03528	-.00759	.00026	.11309
-5.470	498.630	.13081	-.19229	-10.46400	2.99300	-.24256	.01625	-.03309	-.00798	.00022	.12692
-5.513	599.020	.11420	-.28224	-10.50300	3.00430	-.21934	.01247	-.02979	-.00930	.00025	.12980
-5.571	700.020	.23450	-.44449	-10.56200	2.99350	-.15579	-.02252	-.02974	-.00920	.00020	.10160
-5.525	799.280	.25065	-.38766	-10.51600	2.99330	-.13936	-.03119	-.03019	-.00923	.00022	.10124
-5.516	819.210	.37929	.23511	-10.50700	2.99580	-.13938	-.03087	-.03026	-.00914	.00023	.10069
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2486/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.001	19.458	.21323	-.42924	-4.98180	2.99030	-.10734	-.02550	-.03357	-.01058	.00058	.08708
-.014	50.059	.12395	.19017	-4.99040	2.99200	-.12377	-.02566	-.03268	-.01018	.00049	.08652
.012	99.486	.14617	.04253	-4.98110	2.99510	-.13478	-.01622	-.03574	-.00913	.00038	.09136
.019	149.150	.09473	-.05828	-4.97910	2.99550	-.13593	-.01069	-.03457	-.00893	.00045	.09207
.018	198.830	.04834	.17435	-4.99480	2.99330	-.13268	-.00349	-.03670	-.00905	.00034	.09623
.038	259.670	.09332	.10493	-4.99100	2.99350	-.13795	.01030	-.03508	-.00763	.00028	.10448
-.009	398.730	.10884	-.40176	-5.00250	2.99390	-.14089	.02135	-.02980	-.00952	.00033	.11332
-.010	499.270	.16204	-.08237	-5.00350	2.99320	-.10752	.01079	-.02828	-.01105	.00020	.11084
-.043	599.950	.20534	-.02658	-5.03440	2.99480	-.08442	-.01485	-.02772	-.01042	.00020	.08964
.001	799.250	.15462	.14641	-4.99040	2.99700	-.06291	-.01515	-.02812	-.01021	.00027	.09302
.001	939.210	.16038	.05518	-4.99030	2.99580	-.06320	-.01515	-.02680	-.01019	.00027	.09421
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.957	-49.135	.21718	2.52260	-.03432	3.06550	-.02518	-.00881	-.03354	-.00823	.00048	.08583
4.971	15.206	.11877	.16335	-.01246	2.99350	-.05767	-.00642	-.02597	-.00923	.00025	.08514
4.993	49.405	.16594	.17673	.01355	2.99350	-.06434	-.00082	-.03233	-.00804	.00022	.08806
5.011	99.173	.19430	-.43341	.03065	2.99130	-.07248	.00886	-.03265	-.00783	.00030	.09347
5.026	198.390	.30813	.03371	.03959	2.99720	-.07035	.02228	-.03049	-.00837	.00021	.10200
5.023	298.720	.27340	.10955	.03235	3.00210	-.06512	.02979	-.02648	-.01082	.00012	.10717
4.985	399.320	.23934	.11472	-.00839	2.99300	-.02269	.01594	-.02463	-.01157	.00011	.09926
4.975	599.530	.23725	-.10013	-.01592	2.99210	-.00493	.00059	-.02728	-.01046	.00019	.08790
	GRADIENT	.00781	.01074	-.00082	.19726	-.00379	-.00042	-.00170	-.00061	.00002	.00560

V41B-D8A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK020) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2788/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.023	625.450	200.07000	-.01985	-.00516	.46741	-.04230	-.03365	-.00179	.00236	-.00439	.23841
-20.067	700.640	200.41000	.15373	.00016	.35329	-.03919	-.03131	-.00042	.00271	-.01343	.23729
-20.009	799.600	200.01000	-.32508	-.00745	.28583	-.03037	-.02735	.00005	.00142	-.01854	.23614
-19.943	898.920	199.72000	.17755	.00239	.19162	-.00636	-.03508	-.00105	.00090	-.00705	.23431
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2792/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-14.975	474.320	199.94000	-.14650	-.00588	.44899	-.03934	-.03146	-.00085	.00107	-.00198	.23397
-15.019	500.010	200.16000	.10181	-.00311	.37016	-.03231	-.03060	-.00027	.00222	-.00498	.23380
-15.037	550.000	200.28000	-.13165	-.00467	.28825	-.02824	-.03167	-.00004	.00193	-.00590	.23398
-15.055	600.320	200.38000	-.03153	-.00159	.24060	-.02414	-.03107	.00038	.00245	-.01550	.23373
-15.072	700.770	200.46000	-.55355	-.01255	.20759	-.00955	-.03468	-.00115	.00106	-.00840	.23367
-14.948	799.200	200.02000	.29383	.00151	.17933	-.00618	-.03565	-.00093	.00071	-.00573	.23406
-14.971	939.080	199.93000	-.11099	-.00476	.15251	-.00230	-.03576	-.00076	.00005	-.00206	.23353
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-9.991	324.600	200.09000	.03857	-.00161	.33377	-.02204	-.03630	-.00131	.00069	-.00588	.23439
-9.987	349.480	200.12000	-.11641	-.00318	.34606	-.02071	-.03482	-.00153	.00052	-.00280	.23392
-10.034	399.900	200.26000	-1.07090	-.01738	.27808	-.01764	-.03085	-.00085	.00098	-.00071	.23421
-10.032	449.630	200.12000	.10542	-.00141	.22280	-.01530	-.03195	-.00023	.00142	-.00602	.23386
-10.060	500.370	200.32000	.12041	-.00043	.18882	-.01126	-.03177	-.00003	.00022	-.00739	.23392
-10.061	600.420	200.30000	.32378	-.00106	.15379	-.00479	-.03559	-.00091	.00013	-.00319	.23357
-10.003	699.740	200.22000	-.22412	-.00223	.14994	-.00356	-.03698	-.00076	.00004	-.00032	.23406
-9.928	798.450	200.05000	-.34443	-.00731	.14081	-.00245	-.03691	-.00076	.00003	-.00059	.23351
-10.015	999.420	200.15000	.14317	-.00127	.14890	-.00245	-.03583	-.00076	.00002	-.00077	.23433
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK020) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2800/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.514	199.840	200.10000	.18569	-.00037	.30445	.00043	-.04150	-.00109	.00134	-.00250	.23427
-5.512	249.830	200.12000	-.06226	-.00295	.27655	-.00354	-.03804	-.00114	.00043	-.00145	.23415
-5.552	300.350	200.23000	.11677	-.00001	.24228	-.00719	-.03603	-.00142	.00030	-.00096	.23445
-5.554	400.300	200.23000	.00287	-.00252	.18590	-.00335	-.03525	-.00109	.00109	-.00271	.23445
-5.562	500.240	200.27000	-.10179	-.00393	.15176	-.00520	-.03517	-.00080	-.00007	-.00179	.23374
-5.506	599.600	200.23000	.04327	-.00220	.14912	-.00284	-.03538	-.00077	.00003	.00026	.23392
-5.455	693.710	200.15000	.20335	-.00054	.14850	-.00234	-.03534	-.00000	.00001	.00031	.23415
-5.507	799.280	200.22000	-.23239	-.00816	.14857	-.00237	-.03591	-.00076	.00002	.00022	.23407
-5.512	819.280	200.18000	.06559	-.00224	.14839	-.00235	-.03595	-.00077	.00001	.00018	.23433
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2487/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.005	19.748	200.12000	-.10536	-.01110	.23881	.02420	-.04036	-.00242	-.00116	.01492	.23428
-.033	50.376	20 .10000	.06305	.00138	.23110	.02585	-.04618	.00016	.00003	.00760	.23501
-.027	100.420	200.11000	-.05212	-.00341	.21651	.01593	-.04442	.00012	.00025	.00684	.23518
-.016	150.010	200.15000	.44930	.00293	.23410	.00515	-.04364	.00039	.00063	.00180	.23480
-.029	200.450	200.15000	.16504	.00198	.20898	.00085	-.04333	.00066	.00040	-.00124	.23489
-.036	300.410	200.22000	.26520	.00084	.13469	-.00472	-.03206	.00048	.00077	.00390	.23471
-.024	400.110	200.19000	.37316	-.00509	.13899	-.00532	-.04041	.00077	.00027	.00065	.23488
.024	459.420	200.13000	.11213	-.00469	.13482	-.00402	-.03794	.00076	-.00017	.00175	.23487
.036	599.030	200.11000	.45805	.00311	.14910	-.00272	-.03784	.00077	-.00029	.00254	.23510
.001	759.310	200.23000	.13945	-.00236	.14875	-.00289	-.03792	.00077	-.00029	.00249	.23425
.001	939.340	200.21000	-.03181	-.00373	.14913	-.00268	-.03802	.00076	-.00030	.00241	.23468
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2490/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
5.009	-51.180	200.26000	.01055	-.00446	.17015	.00659	-.04335	-.00180	-.00049	.01605	.23409
4.973	15.022	200.15000	-.05451	-.00521	.21239	.01755	-.04329	.00033	.00002	.00708	.23368
4.963	50.239	200.14000	.01693	-.00006	.23237	.01204	-.04301	-.00037	.00038	.00550	.23443
4.944	100.440	200.16000	-.05147	-.00339	.20058	.00801	-.04272	.00049	.00048	-.00031	.23513
4.972	200.280	200.10000	-.01084	-.00457	.13881	-.00077	-.03652	.00012	.00010	.00315	.23428
4.976	300.040	200.13000	.45875	-.00435	.13355	-.00556	-.04083	.00080	.00106	-.00069	.23507
5.033	359.010	200.25000	.01367	-.00186	.13526	-.00455	-.03801	.00084	-.00004	-.00124	.23443
4.990	599.330	200.21000	.14191	-.00169	.13488	-.00239	-.03309	.00005	-.00029	.00005	.23468
	GRADIENT	13.32379	-.00363	-.00035	.01414	.00117	-.00288	.00002	.00000	.00047	.01556

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2788/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.023	625.450	-5.01300	3.00106	-.00616	.13145	-.03126	.03992	-.02621	-.00274	.00240
-20.067	700.640	-5.01600	2.99884	.00016	.01614	-.02811	.03104	-.02384	-.00137	.00278
-20.009	799.600	-5.01000	2.99905	-.00745	-.04841	-.01826	.02604	-.01985	-.00090	.00146
-19.943	899.920	-4.99400	3.00071	.00239	-.14634	.00445	.03755	-.02759	-.00200	.00094
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2792/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.975	474.320	-5.01100	3.00008	-.00558	.11289	-.02870	.04157	-.02414	-.00178	.00112
-15.019	500.010	-5.00000	2.99841	-.00311	.03057	-.02144	.03372	-.02328	-.00120	.00226
-15.037	550.000	-5.00000	2.99827	-.00457	-.03331	-.01838	.03309	-.02434	-.00097	.00198
-15.055	600.320	-5.00700	2.99883	-.00153	-.00031	-.01327	.02804	-.02373	-.00055	.00250
-15.072	700.770	-4.99300	3.00076	-.01255	-.12273	.00131	.03622	-.02736	-.00208	.00110
-14.948	799.200	-4.99400	3.00059	.00151	-.15155	.00469	.03791	-.02832	-.00187	.00075
-14.971	899.080	-4.99100	3.00046	-.00476	-.17923	.00850	.04169	-.02841	-.00170	.00010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2796/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.991	324.600	-4.99940	3.00091	-.00161	.00839	-.01129	.03730	-.02904	-.00223	.00073
-9.987	349.480	-4.99880	3.00108	-.00318	.01654	-.00993	.04040	-.02738	-.00245	.00058
-10.034	399.900	-5.00000	3.00028	-.01738	-.04945	-.00868	.04249	-.02369	-.00177	.00103
-10.032	449.880	-5.00000	2.99831	-.00141	-.10500	-.00472	.03722	-.02470	-.00115	.00146
-10.060	500.370	-4.99800	2.99845	-.00045	-.14224	-.00048	.03595	-.02450	-.00096	.00087
-10.061	600.420	-4.99800	3.00046	-.00105	-.16354	.00207	.03823	-.02833	-.00173	.00017
-10.003	623.740	-4.99800	3.00043	-.00223	-.17739	.00819	.04234	-.02373	-.00168	.00008
-9.928	793.450	-4.99140	3.00041	-.00731	-.17804	.00829	.04251	-.02837	-.00168	.00007
-10.015	953.420	-4.99200	3.00047	-.00127	-.17791	.00838	.04233	-.02859	-.00168	.00007
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1069.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMGLOR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2800/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.514	183.640	-4.99180	3.00097	-.00037	-.02283	.01118	.04053	-.03425	-.00201	.00139
-5.512	249.030	-4.99370	3.00095	-.00035	-.03049	.00721	.04169	-.03079	-.00207	.00048
-5.552	300.350	-4.99130	3.00111	-.00001	-.03473	.00355	.04217	-.02878	-.00234	.00035
-5.554	400.300	-4.99230	3.00072	-.00032	-.13723	.00223	.04042	-.02601	-.00202	.00113
-5.552	500.240	-4.99290	3.00045	-.00035	-.16528	.00034	.04135	-.02793	-.00172	-.00003
-5.503	599.600	-4.99210	3.00030	-.00020	-.17733	.00009	.04331	-.02854	-.00169	.00007
-5.455	699.710	-4.99170	3.00004	-.00004	-.17880	.00090	.04344	-.02859	-.00172	.00005
-5.507	799.800	-4.99110	3.00046	-.00016	-.17845	.00009	.04333	-.02858	-.00169	.00006
-5.512	819.200	-4.99150	3.00044	-.00024	-.17828	.00383	.04353	-.02871	-.00170	.00008
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2487/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.005	19.748	-4.99329	3.00270	-.01110	-.00031	.03500	.05027	-.03307	-.00335	-.00111
-.033	50.378	-4.99227	3.00093	.00138	-.00732	.03504	.05091	-.03090	-.00076	.00008
-.027	100.420	-4.97005	2.99031	-.00341	-.02205	.03577	.05015	-.03714	-.00031	.00029
-.016	150.010	-4.99203	2.99045	.00365	-.10379	.01582	.04504	-.03537	-.00054	.00067
-.029	200.460	-4.99371	2.99312	.00193	-.12030	.01161	.04155	-.03307	-.00027	.00045
-.036	300.410	-4.99136	2.99106	.00034	-.13118	.00500	.04320	-.03083	-.00044	.00032
-.024	400.110	-4.99439	2.99079	-.00509	-.15909	.00406	.04354	-.03320	-.00014	.00031
.024	499.420	-4.99339	2.99079	-.00469	-.17000	.00039	.04471	-.03073	-.00016	-.00012
.036	599.030	-4.99183	2.99079	-.00311	-.17371	.00753	.04651	-.03082	-.00015	-.00025
.001	799.310	-4.99103	2.99078	-.00338	-.17707	.00502	.04546	-.03071	-.00015	-.00025
.001	909.390	-4.99109	2.99073	-.00373	-.17715	.00034	.04544	-.03078	-.00016	-.00025
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2490/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.009	-51.180	-4.99345	3.00185	-.00446	-.16288	.01754	.05097	-.03597	-.00274	-.00044
4.973	15.022	-4.97032	2.99971	-.00521	-.12097	.03330	.05104	-.03591	-.00061	.00007
4.983	50.239	-4.97309	3.00035	-.00325	-.11124	.02301	.05050	-.03462	-.00131	.00042
4.944	100.440	-4.99183	2.99993	-.00059	-.13941	.01623	.04831	-.03534	-.00045	.00053
4.972	200.220	-4.99773	2.99997	-.00157	-.13457	.01018	.04709	-.03214	-.00032	.00014
4.976	300.040	-4.99382	2.99975	-.00435	-.14957	.00329	.04304	-.03345	-.00014	.00110
5.033	399.010	-4.99268	2.99976	-.00185	-.16758	.00338	.04265	-.03083	-.00010	.00001
4.990	599.330	-4.99117	2.99939	-.00169	-.17655	.00357	.04403	-.03071	-.00010	-.00025
	GRADIENT	-.33089	.19969	-.00035	-.00805	.00190	.00340	-.00239	-.00004	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DEETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.023	625.450	200.07000	-.01985	.12721	-.04071	444.72000	.00000	.00000	665.56000	.00000	.00000
-20.067	700.640	200.41000	.15373	.04024	-.15190	446.28000	.00000	.00000	667.91000	.00000	.00000
-20.009	799.600	200.01000	-.32509	.05219	-.09452	447.47000	.00000	.00000	669.67000	.00000	.00000
-19.943	899.980	199.73000	.17755	.04857	-.01574	447.62000	.00000	.00000	669.90000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2792/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.975	474.320	199.94000	-.14660	.03948	-.10440	436.83000	.00000	.00000	653.75000	.00000	.00000
-15.019	500.010	200.16000	.10181	-.00337	-.15307	437.60000	.00000	.00000	654.91000	.00000	.00000
-15.037	550.000	200.22000	-.13183	.03287	-.11803	437.42000	.00000	.00000	654.64000	.00000	.00000
-15.055	600.320	200.30000	-.03163	.07498	-.06728	438.03000	.00000	.00000	655.53000	.00000	.00000
-15.072	700.770	200.40000	-.53535	.03308	-.08184	437.84000	.00000	.00000	655.27000	.00000	.00000
-14.948	799.200	200.02000	.28033	.04323	-.06177	437.52000	.00000	.00000	655.40000	.00000	.00000
-14.971	899.080	199.92000	-.11069	.04933	-.05377	439.12000	.00000	.00000	657.19000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2796/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.931	324.600	200.09000	.03037	-.00136	-.12880	433.32000	.00000	.00000	648.65000	.00000	.00000
-9.937	349.480	200.12000	-.11641	-.00315	-.12804	433.61000	.00000	.00000	648.83000	.00000	.00000
-10.034	399.900	200.28000	-1.07080	-.00742	-.11883	433.50000	.00000	.00000	648.85000	.00000	.00000
-10.032	449.830	200.22000	.10542	.03331	-.01347	434.01000	.00000	.00000	649.52000	.00000	.00000
-10.030	500.370	200.33000	.12041	.01301	-.04301	433.92000	.00000	.00000	649.49000	.00000	.00000
-10.061	600.420	200.30000	.32578	.02708	-.01849	433.28000	.00000	.00000	648.45000	.00000	.00000
-10.003	699.740	200.22000	-.22412	.02314	-.03005	433.16000	.00000	.00000	648.26000	.00000	.00000
-9.928	799.450	200.05000	-.34443	.02037	-.02441	432.88000	.00000	.00000	647.80000	.00000	.00000
-10.015	899.420	200.15000	.14317	.03314	-.03545	433.20000	.00000	.00000	647.43000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK020) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.0000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UROLDR =	.000	RCS =	1.000
OAS =	1.000		

RUN NO. 2800/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.514	159.840	200.10000	.18809	.01906	-.03823	432.83000	.00000	.00000	647.83000	.00000	.00000
-5.512	249.630	200.12000	-.02285	.00114	-.07043	433.07000	.00000	.00000	648.07000	.00000	.00000
-5.532	350.330	200.23000	.11677	-.02702	-.10310	433.07000	.00000	.00000	647.83000	.00000	.00000
-5.554	400.300	200.23000	.00287	-.00218	-.01509	433.00000	.00000	.00000	647.83000	.00000	.00000
-5.552	500.240	200.27000	-.10179	.02049	-.00143	433.00000	.00000	.00000	648.07000	.00000	.00000
-5.506	600.500	200.23000	.04397	.02123	-.00004	433.12000	.00000	.00000	648.71000	.00000	.00000
-5.455	699.710	200.15000	.20006	.02587	-.01503	433.83000	.00000	.00000	648.00000	.00000	.00000
-5.507	799.200	200.22000	-.23239	.02944	-.01488	433.91000	.00000	.00000	648.03000	.00000	.00000
-5.512	819.200	200.10000	.00039	.02004	-.01333	433.83000	.00000	.00000	648.47000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.005	19.740	200.12000	-.10535	.02734	-.01004	435.15000	.00000	.00000	651.19000	.00000	.00000
-.033	50.375	200.10000	.06205	.02705	-.03131	434.75000	.00000	.00000	650.81000	.00000	.00000
-.027	100.420	200.11000	-.03212	.02511	-.03515	434.75000	.00000	.00000	650.82000	.00000	.00000
-.016	150.010	200.15000	.44800	-.00035	-.07125	434.82000	.00000	.00000	649.85000	.00000	.00000
-.029	200.450	200.15000	.15004	.00109	-.03104	435.45000	.00000	.00000	648.74000	.00000	.00000
-.036	300.410	200.23000	.00380	.00453	-.03578	431.03000	.00000	.00000	645.95000	.00000	.00000
-.024	400.110	200.19000	.37316	.00037	-.04129	430.81000	.00000	.00000	643.93000	.00000	.00000
.024	459.420	200.13000	.11213	.01983	-.02120	431.15000	.00000	.00000	645.25000	.00000	.00000
.036	593.030	200.11000	.45305	.01976	-.02305	431.27000	.00000	.00000	645.43000	.00000	.00000
.001	799.310	200.23000	.13045	.02033	-.02101	431.23000	.00000	.00000	645.45000	.00000	.00000
.001	939.340	200.21000	-.03181	.02073	-.02149	431.63000	.00000	.00000	646.36000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2490/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.009	-51.160	200.23000	.01055	.01915	-.03100	440.33000	.00000	.00000	659.74000	.00000	.00000
4.973	15.022	200.15000	-.05451	.02300	-.01102	441.27000	.00000	.00000	660.40000	.00000	.00000
4.933	50.250	200.14000	.01033	.00041	-.03103	441.51000	.00000	.00000	660.90000	.00000	.00000
4.944	100.440	200.16000	-.06147	.00884	-.03183	440.77000	.00000	.00000	659.83000	.00000	.00000
4.972	200.250	200.10000	-.01054	.00003	-.03104	441.03000	.00000	.00000	660.04000	.00000	.00000
4.976	300.040	200.13000	.45375	-.01142	-.04123	440.51000	.00000	.00000	659.93000	.00000	.00000
5.033	359.010	200.23000	.01367	.01419	-.03107	440.55000	.00000	.00000	659.35000	.00000	.00000
4.990	599.330	200.21000	.14191	.01383	-.00159	441.38000	.00000	.00000	660.53000	.00000	.00000
	GRADIENT	13.32379	-.00363	.00146	-.00108	29.37492	.00000	.00000	43.982.9	.00000	.00000

DATE 06 MAY 77

TABULATED SOURCE DATA. IA22. (AEDC V41B-D9A)

V41B-D9A (IA22),ORBITER(O4RC) W/ET SEPARATING

(UVK020) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2788/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.023	625.450	979.29000	979.29000	85.00000	979.29000	984.49000	87.00000	76.00000	26.84300	99.76800
-20.067	700.640	982.25000	982.25000	85.00000	982.25000	984.49000	87.00000	76.00000	21.85300	99.76800
-20.009	799.600	985.34000	985.34000	85.00000	985.34000	984.49000	87.00000	76.00000	17.29800	99.76800
-19.943	998.920	984.68000	984.68000	85.00000	984.68000	984.49000	87.00000	76.00000	24.13100	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2792/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.975	474.320	978.80000	978.80000	85.00000	979.60000	978.42000	86.00000	77.00000	19.62700	99.64200
-15.019	500.010	978.60000	978.60000	85.00000	979.60000	978.42000	86.00000	77.00000	15.64500	99.64200
-15.037	550.000	978.60000	978.60000	85.00000	978.60000	978.42000	86.00000	77.00000	9.14820	99.64200
-15.055	600.320	978.58000	978.58000	85.00000	978.58000	978.42000	86.00000	77.00000	3.18380	99.64200
-15.072	700.770	978.65000	978.65000	85.00000	978.65000	978.42000	86.00000	77.00000	4.40360	99.64200
-14.948	799.200	978.99000	978.98000	85.00000	978.98000	978.42000	86.00000	77.00000	7.18520	99.64200
-14.971	999.080	978.61000	978.61000	85.00000	978.61000	978.42000	86.00000	77.00000	10.63700	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2796/ 0 RN/L = .68 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.991	324.600	979.14000	979.14000	84.00000	979.14000	979.17000	85.00000	77.00000	12.61500	99.64200
-9.987	349.480	979.08000	979.08000	84.00000	979.08000	979.17000	85.00000	77.00000	11.25400	99.64200
-10.034	399.900	979.12000	979.12000	84.00000	979.12000	979.17000	85.00000	77.00000	6.24510	99.64200
-10.032	449.880	979.28000	979.28000	84.00000	979.28000	979.17000	85.00000	77.00000	.75889	99.64200
-10.060	500.370	979.13000	979.13000	84.00000	979.13000	979.17000	85.00000	77.00000	-1.16410	99.64200
-10.061	600.420	979.00000	979.00000	84.00000	979.00000	979.17000	85.00000	77.00000	-.53731	99.64200
-10.003	699.740	979.18000	979.18000	84.00000	979.18000	979.17000	85.00000	77.00000	.46912	99.64200
-9.928	799.450	978.98000	978.98000	84.00000	978.98000	979.17000	85.00000	77.00000	1.46270	99.64200
-10.015	999.420	979.36000	979.36000	84.00000	979.36000	979.17000	85.00000	77.00000	2.93080	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK020) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2800/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.514	199.840	980.01000	980.01000	83.00000	980.0100(	979.80000	84.00000	77.00000	2.78580	99.76800
-5.512	249.830	979.88000	979.88000	83.00000	979.8800(	979.80000	84.00000	77.00000	2.06930	99.76800
-5.552	300.350	979.97000	979.97000	83.00000	979.9700(	979.80000	84.00000	77.00000	.84807	99.76800
-5.554	400.300	980.01000	980.01000	83.00000	980.0100(	979.80000	84.00000	77.00000	-.92987	99.76800
-5.552	500.240	979.83000	979.83000	83.00000	979.8300(	979.80000	84.00000	77.00000	-.69304	99.76800
-5.508	600.600	979.71000	979.71000	83.00000	979.7100(	979.83000	84.00000	77.00000	-.51112	99.76800
-5.455	600.710	979.75000	979.75000	83.00000	979.7500(	979.80000	84.00000	77.00000	.27957	99.76800
-5.507	799.280	979.80000	979.80000	83.00000	979.8000(	979.80000	84.00000	77.00000	1.27460	99.76800
-5.512	819.280	979.82000	979.82000	83.00000	979.8200(	979.80000	84.00000	77.00000	2.11790	99.76800
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2487/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.005	19.748	975.94000	975.94000	79.00000	975.9400(	977.55000	64.00000	73.00000	-2.35710	100.02000
-.033	50.376	976.51000	976.51000	79.00000	976.5100(	977.55000	64.00000	73.00000	-2.58310	100.02000
-.027	100.420	976.64000	976.64000	79.00000	976.6400(	977.55000	64.00000	73.00000	-2.87650	100.02000
-.016	150.010	976.33000	976.33000	79.00000	976.3300(	977.55000	64.00000	73.00000	-3.06810	100.02000
-.029	200.450	976.55000	976.55000	79.00000	976.5500(	977.55000	64.00000	73.00000	-3.13290	100.02000
-.036	300.410	976.66000	976.66000	79.00000	976.6600(	977.56000	64.00000	73.00000	-1.83990	100.02000
-.024	400.110	977.03000	977.03000	79.00000	977.0300(	977.55000	64.00000	73.00000	-2.50780	100.02000
.024	499.420	977.05000	977.05000	79.00000	977.0500(	977.55000	64.00000	73.00000	-2.39350	100.02000
.036	599.030	977.33000	977.33000	79.00000	977.3300(	977.55000	64.00000	73.00000	-2.13540	100.02000
.001	799.310	977.35000	977.35000	79.00000	977.3500(	977.55000	64.00000	73.00000	-1.59050	100.02000
.001	939.340	977.77000	977.77000	79.00000	977.7700(	977.55000	64.00000	73.00000	-1.07123	100.02000
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2490/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.009	-51.180	976.09000	976.09000	81.00000	976.0900(	976.55000	66.00000	73.00000	-5.00460	100.02000
4.973	15.022	976.02000	976.02000	81.00000	976.0200(	976.55000	66.00000	73.00000	-5.69100	100.02000
4.963	50.239	976.33000	976.33000	81.00000	976.3300(	976.55000	66.00000	73.00000	-4.86570	100.02000
4.944	100.440	976.44000	976.44000	81.00000	976.4400(	976.53000	66.00000	73.00000	-4.85710	100.02000
4.972	200.290	976.52000	976.52000	81.00000	976.5200(	976.55000	66.00000	73.00000	-2.99060	100.02000
4.976	300.040	976.85000	976.85000	81.00000	976.8500(	976.55000	66.00000	73.00000	-3.25840	100.02000
5.033	399.010	976.50000	976.50000	81.00000	976.5000(	976.55000	66.00000	73.00000	-3.16800	100.02000
4.990	599.330	976.76000	976.76000	81.00000	976.7600(	976.55000	66.00000	73.00000	-2.77200	100.02000
	GRADIENT	64.97670	64.97670	5.39209	64.9767(	65.00793	4.39356	4.65954	-.37684	6.65823

V419-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK020) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2788/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.023	625.450	200.07000	-.01985	-25.03600	2.99490	-.52807	-.04673	-.03534	-.00824	.00080	.11484
-20.067	700.640	200.41000	.15373	-25.08300	2.99970	-.53622	-.04030	-.03608	-.00864	.00091	.12259
-20.009	799.600	200.01000	-.32508	-25.01900	2.99160	-.57587	-.00817	-.03746	-.00807	.00106	.14354
-19.943	998.920	199.73000	.17755	-24.93700	3.00310	-.62347	.04977	-.03372	-.00893	.00126	.18922
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2792/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.975	474.320	199.94000	-.14660	-19.98600	2.99450	-.43814	-.02588	-.03662	-.00802	.00113	.12270
-15.019	500.010	200.16000	.10181	-20.02700	2.99630	-.40116	-.04809	-.03651	-.00796	.00063	.10716
-15.037	550.000	200.29000	-.13186	-20.04600	2.99780	-.39508	-.04742	-.03631	-.00814	.00068	.11293
-15.055	600.320	200.36000	-.03153	-20.05200	2.99730	-.41099	-.03518	-.03721	-.00793	.00070	.11752
-15.072	700.770	200.46000	-.56385	-20.06700	2.99320	-.44546	-.00405	-.03811	-.00714	.00069	.13389
-14.948	799.200	200.02000	.29383	-19.94200	3.00210	-.47355	.02766	-.03645	-.00802	.00085	.15890
-14.971	999.080	199.98000	-.11099	-19.98200	2.99570	-.37184	-.01694	-.03797	-.00707	.00036	.13077
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.991	324.600	200.09000	.03857	-14.98300	2.99330	-.34805	-.01386	-.03022	-.01127	.00093	.12687
-9.987	349.480	200.12000	-.11641	-14.98300	2.99790	-.31404	-.03001	-.03239	-.01029	.00066	.11446
-10.034	399.900	200.23000	-1.07090	-15.03400	2.98290	-.28354	-.04600	-.03432	-.00918	.00047	.10266
-10.032	449.880	200.22000	.10542	-15.03200	2.99920	-.29370	-.03733	-.03590	-.00837	.00049	.10583
-10.060	500.370	200.32000	.12041	-15.05800	2.99300	-.30526	-.02265	-.03654	-.00781	.00052	.11091
-10.061	600.420	200.30000	.32578	-15.05400	2.99340	-.32779	-.00159	-.03682	-.00733	.00047	.12375
-10.003	699.740	200.23000	-.22412	-14.99300	2.99120	-.34419	.02165	-.03464	-.00810	.00055	.14220
-9.928	798.450	200.05000	-.34443	-14.91900	2.99310	-.30300	.01276	-.03241	-.00940	.00049	.14371
-10.015	999.420	200.15000	.14317	-15.00700	2.99020	-.21814	-.03914	-.03378	-.00823	.00036	.10937
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-DSA (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK020) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMACH = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2800/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.514	199.840	200.10000	.18569	-10.49300	3.00060	-.23774	-.02793	-.03804	-.00943	.00036	.10863
-5.512	249.830	200.12000	-.08226	-10.49000	2.99300	-.22079	-.03227	-.03588	-.00853	.00038	.10272
-5.552	300.350	200.23000	.11677	-10.54300	3.00110	-.20629	-.03091	-.03593	-.00886	.00039	.09708
-5.554	400.300	200.23000	.00287	-10.54900	2.99020	-.21928	-.02006	-.03591	-.00774	.00037	.10228
-5.552	500.240	200.27000	-.10179	-10.54600	2.99460	-.23475	.00025	-.03475	-.00756	.00032	.11376
-5.506	599.600	200.23000	.04327	-10.49300	2.99430	-.24118	.01716	-.03220	-.00823	.00028	.12778
-5.455	699.710	200.15000	.20395	-10.44700	3.00000	-.20614	.00708	-.02837	-.00651	.00023	.12688
-5.507	799.280	200.22000	-.23239	-10.49300	2.99430	-.14839	-.02347	-.02932	-.00941	.00015	.09581
-5.512	819.250	200.10000	.06339	-10.50400	2.99220	-.14153	-.02203	-.03012	-.00919	.00014	.09597
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2487/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.005	19.748	200.12000	-.10536	-4.99340	2.99160	-.14746	-.03035	-.02073	-.01200	.00063	.09320
-.033	50.376	200.10000	.03305	-4.99310	3.00140	-.15195	-.03438	-.02695	-.01299	.00042	.09428
-.027	100.420	200.11000	-.00912	-4.99710	2.99230	-.14204	-.02677	-.03226	-.01069	.00037	.09475
-.016	150.010	200.15000	.44500	-4.99730	3.00240	-.12340	-.02437	-.03597	-.00975	.00038	.09048
-.029	200.450	200.15000	.16304	-5.01490	3.00110	-.12827	-.01930	-.03399	-.00804	.00035	.08955
-.036	300.410	200.22000	.20920	-5.02700	2.99230	-.13102	-.00493	-.03347	-.00746	.00038	.09710
-.024	400.110	200.19000	.37316	-5.01790	2.99370	-.13004	.00375	-.03470	-.00753	.00032	.10470
.024	499.420	200.13000	.11213	-4.99200	2.99410	-.13638	.02078	-.02849	-.00999	.00041	.11398
.036	599.030	200.11000	.43595	-4.99570	3.00190	-.09742	.00639	-.02671	-.01030	.00019	.10730
.001	799.310	200.23000	.15045	-4.99100	2.99240	-.06897	-.01549	-.02853	-.01021	.00026	.09127
.001	939.340	200.21000	-.03181	-4.99050	2.99310	-.06341	-.01527	-.02887	-.01012	.00027	.09314
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2490/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.009	-51.180	200.26000	.01055	.02825	2.99740	-.04544	-.01952	-.02376	-.01111	.00035	.08609
4.973	15.022	200.15000	-.05451	.00218	2.99450	-.07209	-.01763	-.03101	-.01007	.00033	.08817
4.993	50.238	200.14000	.01609	-.01189	2.99220	-.08203	-.01251	-.02954	-.01038	.00032	.09007
4.944	100.440	200.18000	-.05147	-.03773	2.99260	-.08276	-.00801	-.03319	-.00949	.00026	.09095
4.972	200.280	200.10000	-.01034	-.01803	2.99200	-.06742	.00348	-.03407	-.00806	.00026	.09473
4.976	300.040	200.13000	.45875	-.01832	2.99440	-.06922	.02039	-.03132	-.00837	.00024	.10115
5.033	399.010	200.26000	.01367	.03582	2.99390	-.06121	.02084	-.02491	-.01142	.00018	.10709
4.990	599.330	200.21000	.14191	-.00157	2.99700	-.00458	.00892	-.02752	-.01050	.00020	.08801
	GRADIENT	13.32379	-.00363	.00015	.19934	-.00480	-.00117	-.00206	-.00067	.00002	.00587

V41B-D9A (IA22),ORBITER(04R21) W/ET SEPARATING (RVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UNCLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.040	625.430	400.32000	-.35719	-.00301	.33931	-.04001	-.03018	-.00009	.00211	-.01736	.23449
-20.013	700.020	400.08000	.00035	-.00033	.24071	-.03034	-.03038	.00020	.00283	-.01829	.23398
-19.987	783.100	399.76160	.03302	-.00365	.20310	-.02773	-.03109	-.00115	.00103	-.00908	.23409
-20.015	900.720	400.03200	.02157	.00264	.16103	-.02173	-.03019	-.00078	.00009	-.00359	.23310
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2793/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-15.035	475.120	400.20000	-.19251	-.00492	.33959	-.03511	-.03142	-.00030	.00163	-.01177	.23315
-15.058	500.170	400.20000	-.33018	-.01101	.27709	-.03103	-.03190	-.00020	.00134	-.00311	.23339
-15.011	548.800	400.00000	-.20723	-.00519	.21413	-.01713	-.03149	.00027	.00214	-.01216	.23374
-14.988	600.300	399.92000	.10031	-.00307	.16215	-.01537	-.03102	-.00005	.00102	-.01015	.23345
-14.994	625.000	399.92000	.01011	-.00310	.15911	-.00987	-.03103	-.00002	-.00001	-.00357	.23377
-14.954	788.570	399.92000	-.07749	-.00000	.10091	-.00203	-.03004	-.00077	.00005	-.00202	.23336
-14.953	968.130	399.76000	.00213	.00135	.15107	-.00086	-.03003	-.00074	.00005	-.00189	.23398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2797/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.053	325.600	400.16000	.07203	-.00201	.34181	-.01578	-.03503	-.00159	.00100	-.00285	.23357
-10.010	349.330	400.02000	-.07144	-.00033	.31013	-.02010	-.03407	-.00158	.00173	-.00134	.23394
-10.051	399.710	400.16000	-.00248	-.00409	.24215	-.01744	-.03190	-.00038	.00130	-.00476	.23359
-10.004	449.330	400.12000	-.33005	-.00713	.19106	-.01279	-.03217	.00012	.00147	-.00782	.23368
-9.994	499.200	400.12000	-.53334	-.01333	.17020	-.00792	-.03537	-.00100	.00054	-.00628	.23418
-9.970	599.000	400.08000	-.20163	-.00034	.15310	-.00345	-.03035	-.00076	.00010	-.00141	.23380
-9.994	639.570	400.04000	-.10728	-.00420	.14030	-.00241	-.03003	-.00076	.00004	-.00075	.23412
-9.997	793.610	400.04000	-.00184	-.00217	.14009	-.00239	-.03003	-.00077	.00003	-.00049	.23366
-10.091	1000.000	400.42000	-.23135	-.00335	.14945	-.00241	-.03579	-.00077	.00002	-.00072	.23403
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04R31) W/ET SEPARATING (RVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2801/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-5.543	200.360	400.10000	-.11023	-.00717	.29387	.00250	-.03370	-.00105	-.00016	.00008	.23430
-5.482	248.680	400.11000	-.23461	-.00512	.26222	-.00515	-.03676	-.00153	.00051	.00111	.23378
-5.519	299.260	400.21000	-.33707	-.00717	.28309	-.01270	-.03411	-.00164	.00109	.00071	.23439
-5.489	348.870	400.11000	-.24414	-.00335	.17550	-.00509	-.03681	-.00098	.00045	-.00371	.23409
-5.472	498.650	400.01000	.01450	-.00470	.15672	-.00418	-.03336	-.00031	.00006	-.00065	.23392
-5.470	548.530	400.00000	.20006	.00019	.14030	-.00240	-.03003	-.00077	.00001	.00037	.23427
-5.481	603.720	400.17000	-.19039	-.00335	.14021	-.00338	-.03037	-.00078	.00001	.00036	.23439
-5.531	799.310	400.28000	.28184	.00248	.14874	-.00258	-.03507	-.00076	.00002	.00057	.23398
-5.524	819.450	400.27000	-.20314	-.00312	.14839	-.00233	-.03284	-.00077	.00001	.00046	.23398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2468/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-.046	20.857	400.03000	.47477	.00614	.26575	.02542	-.04642	-.00062	-.00054	.00722	.23590
.029	48.809	400.03000	.33462	-.00306	.24780	.02418	-.04697	.00058	-.00002	.00332	.23470
.046	98.549	400.04000	.00004	-.00006	.24139	.01178	-.04707	.00071	.00055	.00257	.23410
.022	149.020	400.13000	.18723	.00246	.23024	.00220	-.04405	.00045	.00045	.00237	.23336
.002	199.240	400.03000	.30082	.00057	.23787	-.00446	-.04078	.00005	.00051	.00213	.23418
.032	298.640	400.17000	.29733	-.00330	.19198	-.00370	-.04038	.00074	.00122	.00057	.23413
.034	398.620	400.32000	.08351	-.00499	.15771	-.00575	-.04025	.00033	.00010	-.00051	.23407
.034	499.780	400.23000	-.03476	-.00307	.15407	-.00306	-.03789	.00031	-.00027	.00145	.23437
.023	598.030	400.10000	-.20121	-.00129	.15346	-.00246	-.03811	.00005	-.00030	.00154	.23455
-.054	798.030	400.31000	.22305	.00076	.15279	-.00246	-.03803	.00002	-.00030	.00144	.23376
.010	939.270	400.27000	.27746	.00000	.15317	-.00242	-.03758	.00005	-.00030	.00135	.23472
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2491/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
4.984	-50.481	400.14000	-.48576	-.01005	.23875	.02334	-.04454	-.00162	-.00032	.01105	.23428
5.050	13.936	400.21000	.10430	.00002	.22402	.01507	-.04389	.00040	.00032	.00238	.23397
5.003	48.631	400.21000	.12709	.00103	.22103	.01073	-.04400	.00049	.00025	.00169	.23463
5.004	99.003	400.20000	.00221	-.00003	.21003	.00245	-.04205	.00031	.00033	-.00022	.23421
5.026	193.680	400.33000	-.21054	-.01103	.20026	-.00203	-.03709	.00025	.00032	.00185	.23483
5.028	293.630	400.22000	-.30031	-.01432	.17203	-.00316	-.04037	.00005	.00029	-.00131	.23501
5.021	393.610	400.20000	-.03049	-.00393	.16236	-.00370	-.03868	.00037	-.00014	-.00067	.23454
4.993	593.630	400.21000	.40673	.00652	.15839	-.00223	-.03807	.00020	-.00030	.00011	.23399
	GRADIENT	30.70037	.00802	.00075	.01725	.00145	-.00331	.00003	.00002	.00021	.01794

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (SVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1059.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DSETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UM3LDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.040	623.430	-5.01800	2.99911	-.00301	.00265	-.00505	.02704	-.02272	-.00104	.00216
-20.013	700.020	-5.00300	2.99905	-.00335	-.00319	-.01157	.02814	-.02291	-.00075	.00268
-19.997	759.100	-4.99100	3.00075	-.00333	-.13340	.00228	.05530	-.02723	-.00210	.00108
-20.015	809.720	-4.98200	3.00046	.00224	-.17410	.00766	.04051	-.02776	-.00173	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2793/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.035	475.120	-5.01000	2.99952	-.00492	.00425	-.02226	.03180	-.02410	-.00123	.00167
-15.058	500.170	-5.00300	2.99951	-.01101	-.05341	-.01322	.03543	-.02458	-.00113	.00139
-15.011	549.530	-5.00200	2.99909	-.00319	-.11115	-.00743	.03137	-.02417	-.00086	.00218
-14.995	599.330	-4.99200	2.99947	-.00337	-.13483	-.00122	.03359	-.02431	-.00098	.00107
-14.994	650.900	-4.98200	3.00050	-.00310	-.16013	.00267	.03604	-.02425	-.00175	.00003
-14.994	700.570	-4.97100	3.00049	-.00303	-.17312	.00703	.04148	-.02433	-.00170	.00009
-14.993	900.130	-4.93100	3.00045	.00135	-.17374	.00708	.04161	-.02437	-.00167	.00010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2797/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.053	325.680	-4.99700	3.00121	-.00231	.01703	-.00302	.04022	-.02777	-.00251	.00105
-10.010	349.330	-4.99200	3.00115	-.00305	-.00024	-.00024	.04106	-.02631	-.00250	.00177
-10.051	389.710	-5.00100	2.99979	-.00409	-.00013	-.00039	.03902	-.02484	-.00130	.00135
-10.004	449.330	-4.99100	2.99933	-.00713	-.13337	-.00205	.03555	-.02492	-.00050	.00151
-9.994	499.200	-4.98170	3.00033	-.01333	-.15109	.00234	.03259	-.02811	-.00192	.00058
-9.970	548.800	-4.99170	3.00044	-.00824	-.17355	.00730	.04173	-.02831	-.00168	.00014
-9.994	603.570	-4.99170	3.00050	-.00420	-.17283	.00835	.04244	-.02750	-.00169	.00008
-9.997	798.610	-4.98180	3.00047	-.00217	-.17220	.00837	.04332	-.02875	-.00169	.00007
-10.091	1000.000	-4.99200	3.00045	-.00505	-.17284	.00836	.04260	-.02853	-.00169	.00007
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2801/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.543	200.360	-4.98020	3.00097	-.00717	-.03337	.01326	.04324	-.03145	-.00197	-.00011
-5.482	248.860	-4.98200	3.00132	-.00512	-.04509	.00561	.04427	-.02951	-.00245	.00055
-5.519	299.260	-4.98360	3.00127	-.00717	-.07516	-.00194	.04387	-.02686	-.00256	.00113
-5.489	398.870	-4.98360	3.00086	-.00886	-.15147	.00256	.03941	-.02836	-.00190	.00049
-5.472	498.660	-4.98260	3.00050	-.00470	-.16936	.00654	.04240	-.02843	-.00173	.00011
-5.470	598.520	-4.98160	3.00051	.00019	-.17855	.00835	.04352	-.02868	-.00170	.00006
-5.481	698.720	-4.98130	3.00046	-.00566	-.17841	.00835	.04374	-.02873	-.00170	.00005
-5.531	799.310	-4.98140	3.00042	.00248	-.17822	.00835	.04369	-.02883	-.00168	.00006
-5.524	819.450	-4.98090	3.00052	-.00812	-.17871	.00842	.04363	-.02869	-.00169	.00005
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000

RUN NO. 2489/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.046	20.857	-4.95735	3.00096	.00614	-.07241	.04024	.05063	-.04113	-.00154	-.00050
.029	48.809	-4.96258	2.99956	-.00306	-.08187	.03502	.04680	-.04166	-.00035	.00003
.046	98.549	-4.97414	2.99826	-.00056	-.08797	.02260	.04601	-.03977	-.00022	.00070
.022	149.020	-4.98247	2.99824	.00246	-.07925	.01303	.04583	-.03675	-.00038	.00049
.002	199.240	-4.98917	2.99863	.00057	-.09214	.00638	.04565	-.03347	-.00088	.00056
.032	298.640	-4.99335	2.99880	-.00330	-.13810	.00414	.04406	-.03338	-.00019	.00126
.034	398.620	-4.99363	2.99869	-.00499	-.16212	.00509	.04299	-.03234	-.00010	.00015
.034	498.790	-4.99164	2.99877	-.00307	-.17549	.00797	.04492	-.03089	-.00012	-.00023
.023	598.860	-4.99135	2.99869	-.00129	-.17751	.00838	.04506	-.03080	-.00008	-.00025
-.054	799.890	-4.99134	2.99874	.00056	-.17747	.00839	.04500	-.03071	-.00011	-.00025
.010	939.270	-4.99133	2.99870	.00000	-.17747	.00844	.04496	-.03056	-.00008	-.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2491/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.984	-50.481	-4.95905	3.00195	-.01005	-.09993	.04030	.05605	-.03755	-.00256	-.00027
5.050	13.036	-4.96939	2.99958	.00932	-.10904	.02985	.04672	-.03829	-.00054	.00036
5.008	48.961	-4.97635	2.99944	.00186	-.11231	.02175	.04568	-.03759	-.00045	.00071
5.004	99.003	-4.98398	2.99823	-.00553	-.11587	.01344	.04390	-.03654	-.00044	.00087
5.026	198.520	-4.99015	2.99806	-.01156	-.13240	.00738	.04603	-.03127	-.00039	.00057
5.028	298.530	-4.99355	2.99872	-.01432	-.15662	.00485	.04283	-.03324	-.00009	.00034
5.021	399.610	-4.99193	2.99873	-.00893	-.17118	.00730	.04348	-.03066	-.00007	-.00010
4.993	598.830	-4.99103	2.99858	.00552	-.17052	.00830	.04434	-.03064	-.00005	-.00028
	GRADIENT	-.38117	.23011	.00075	-.00836	.00229	.00358	-.00294	-.00004	.00003

V41B-D8A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.040	625.430	400.32000	-.35719	.04396	-.15964	445.63000	.00000	.00000	666.93000	.00000	.00000
-20.013	700.020	400.04000	.00836	.07194	-.07767	445.53000	.00000	.00000	667.42000	.00000	.00000
-19.967	799.100	399.75000	.06232	.05357	-.09390	445.43000	.00000	.00000	666.62000	.00000	.00000
-20.015	999.720	400.20000	.43897	.05508	-.07697	443.61000	.00000	.00000	663.90000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2793/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.035	475.120	400.22000	-.19251	-.01168	-.23386	437.23000	.00000	.00000	654.40000	.00000	.00000
-15.058	500.170	400.20000	-.33218	.02753	-.18559	436.93000	.00000	.00000	653.93000	.00000	.00000
-15.011	549.530	400.06000	-.29726	.09102	-.06071	436.97000	.00000	.00000	653.96000	.00000	.00000
-14.996	599.360	399.95000	.16281	.05457	-.08463	437.02000	.00000	.00000	654.03000	.00000	.00000
-14.934	698.900	399.90000	.01011	.05869	-.07392	436.70000	.00000	.00000	653.55000	.00000	.00000
-14.954	799.570	399.95000	-.06449	.05302	-.06009	436.60000	.00000	.00000	653.41000	.00000	.00000
-14.953	993.130	399.76000	.05813	.04769	-.05833	436.53000	.00000	.00000	653.35000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2797/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.053	325.580	400.15000	.07526	.00774	-.10052	433.41000	.00000	.00000	648.63000	.00000	.00000
-10.010	349.360	400.05000	-.07144	-.00751	-.12824	433.61000	.00000	.00000	648.93000	.00000	.00000
-10.051	399.710	400.15000	-.00849	.01718	-.08807	433.33000	.00000	.00000	648.50000	.00000	.00000
-10.004	449.330	400.12000	-.33385	.03030	-.08812	433.42000	.00000	.00000	648.63000	.00000	.00000
-9.994	499.200	400.12000	-.53354	.04032	-.04133	433.24000	.00000	.00000	648.37000	.00000	.00000
-9.970	599.800	400.03000	-.20189	.02651	-.03837	432.93000	.00000	.00000	647.91000	.00000	.00000
-9.964	698.570	400.06000	-.10728	.03660	-.03723	433.42000	.00000	.00000	648.64000	.00000	.00000
-9.967	798.610	400.04000	-.00164	.03359	-.03177	432.71000	.00000	.00000	647.58000	.00000	.00000
-10.091	1000.000	400.42000	-.28655	.03003	-.02454	433.77000	.00000	.00000	649.17000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) A/ET SEPARATING (TVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2801/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.543	200.360	400.10000	-.11023	.00942	-.03831	433.17000	.00000	.00000	648.28000	.00000	.00000
-5.482	248.860	400.11000	-.23461	-.00993	-.07615	433.25000	.00000	.00000	648.40000	.00000	.00000
-5.519	299.260	400.21000	-.39707	-.00752	-.05474	433.13000	.00000	.00000	648.28000	.00000	.00000
-5.489	398.870	400.11000	-.24414	.00995	-.04503	432.81000	.00000	.00000	647.74000	.00000	.00000
-5.472	498.630	400.01000	.01450	.02788	-.01753	432.03000	.00000	.00000	646.57000	.00000	.00000
-5.470	598.520	400.09000	.20095	.02884	-.01635	433.03000	.00000	.00000	648.05000	.00000	.00000
-5.481	698.720	400.17000	-.19989	.02859	-.01639	432.34000	.00000	.00000	647.04000	.00000	.00000
-5.531	799.310	400.23000	.29184	.02451	-.01579	432.80000	.00000	.00000	647.72000	.00000	.00000
-5.524	819.450	400.27000	-.26914	.02318	-.01452	433.26000	.00000	.00000	648.39000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2488/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.046	20.857	400.03000	.47477	.02320	-.03459	435.71000	.00000	.00000	652.06000	.00000	.00000
.029	48.809	400.03000	.32452	.02560	-.03744	436.33000	.00000	.00000	653.09000	.00000	.00000
.046	98.549	400.04000	.08594	.02821	-.04390	435.97000	.00000	.00000	652.47000	.00000	.00000
.022	149.020	400.13000	.18723	.01403	-.05982	436.15000	.00000	.00000	652.73000	.00000	.00000
.002	199.240	400.03000	.36552	-.00418	-.06355	436.83000	.00000	.00000	653.74000	.00000	.00000
.032	299.640	400.17000	.29783	.00133	-.05534	436.53000	.00000	.00000	653.30000	.00000	.00000
.034	399.620	400.32000	.09351	.02756	-.01728	436.53000	.00000	.00000	653.30000	.00000	.00000
.034	498.790	400.22000	-.03476	.02410	-.02038	436.21000	.00000	.00000	652.87000	.00000	.00000
.023	598.850	400.18000	-.20121	.02190	-.01972	436.73000	.00000	.00000	653.69000	.00000	.00000
-.054	799.890	400.31000	.25206	.01931	-.01724	437.17000	.00000	.00000	654.27000	.00000	.00000
.010	939.270	400.27000	.27746	.01835	-.01629	437.67000	.00000	.00000	655.01000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2491/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.984	-50.481	400.14000	-.48676	.01744	-.00621	441.63000	.00000	.00000	661.02000	.00000	.00000
5.050	13.036	400.21000	.10460	.02119	-.02501	442.07000	.00000	.00000	661.60000	.00000	.00000
5.008	48.961	400.21000	.12709	.01736	-.03194	441.67000	.00000	.00000	661.00000	.00000	.00000
5.004	99.003	400.20000	.00621	.00418	-.05169	442.84000	.00000	.00000	662.75000	.00000	.00000
5.026	198.520	400.30000	-.21034	.01089	-.02634	443.33000	.00000	.00000	663.56000	.00000	.00000
5.028	299.530	400.28000	-.55991	-.00451	-.04291	443.31000	.00000	.00000	663.46000	.00000	.00000
5.021	398.610	400.28000	-.03949	.01815	-.00769	443.21000	.00000	.00000	663.31000	.00000	.00000
4.993	598.820	400.21000	.40673	.01458	-.00427	443.93000	.00000	.00000	664.45000	.00000	.00000
	GRADIENT	30.70037	.00802	.00163	-.00192	33.91148	.00000	.00000	50.75176	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) 4/ET SEPARATING (UVK021) (20 APR 77)

REFERENCE DATA

SREF =	2660.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.040	625.430	982.78000	982.78000	85.00000	982.78000	932.60000	87.00000	76.00000	34.84700	99.76800
-20.013	700.020	982.51000	982.51000	85.00000	982.51000	932.60000	87.00000	76.00000	33.55600	99.76800
-19.967	799.100	982.32000	982.32000	85.00000	982.32000	932.60000	87.00000	76.00000	24.33000	99.76800
-20.015	999.720	978.81000	978.81000	85.00000	978.81000	932.60000	87.00000	76.00000	8.36520	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2793/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.035	475.120	978.60000	978.60000	84.00000	978.60000	978.60659	86.00000	77.00000	25.90800	99.64200
-15.058	500.170	978.59000	978.59000	84.00000	978.59000	978.60659	86.00000	77.00000	26.97700	99.64200
-15.011	549.530	979.11000	979.11000	84.00000	979.11000	978.60999	86.00000	77.00000	26.28500	99.64200
-14.996	599.360	979.22000	979.22000	84.00000	979.22000	978.60999	86.00000	77.00000	22.99500	99.64200
-14.954	698.900	979.03000	979.03000	84.00000	978.93000	978.60009	86.00000	77.00000	17.93500	99.64200
-14.954	798.570	979.25000	979.25000	84.00000	979.25000	978.60999	86.00000	77.00000	13.19900	99.64200
-14.953	903.130	979.17000	979.17000	84.00000	979.17000	978.60999	86.00000	77.00000	9.54560	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2797/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.053	325.580	979.27000	979.27000	84.00000	979.27000	979.07000	85.00000	77.00000	16.18500	99.64200
-10.010	349.360	979.24000	979.24000	84.00000	979.24000	979.07000	85.00000	77.00000	17.46900	99.64200
-10.051	399.710	979.21000	979.21000	84.00000	979.21000	979.07000	85.00000	77.00000	19.01500	99.64200
-10.004	449.330	979.30000	979.30000	84.00000	979.30000	979.07000	85.00000	77.00000	18.87700	99.64200
-9.994	499.200	979.30000	979.30000	84.00000	979.30000	979.07000	85.00000	77.00000	16.25200	99.64200
-9.970	598.800	979.13000	979.13000	84.00000	979.13000	979.07000	85.00000	77.00000	12.62900	99.64200
-9.964	698.570	979.29000	979.29000	84.00000	979.29000	979.07000	85.00000	77.00000	9.77530	99.64200
-9.967	798.610	979.12000	979.12000	84.00000	979.12000	979.07000	85.00000	77.00000	7.82560	99.64200
-10.091	1000.000	979.12000	979.12000	84.00000	979.12000	979.07000	85.00000	77.00000	5.50610	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK021) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2901/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.543	200.360	980.17000	980.17000	83.00000	980.17000	979.93000	84.00000	77.00000	.17909	99.76800
-5.482	248.860	979.83000	979.83000	83.00000	979.83000	979.93000	84.00000	77.00000	.15066	99.76800
-5.519	293.250	980.16000	980.16000	83.00000	980.16000	979.93000	84.00000	77.00000	3.76970	99.76800
-5.489	303.870	980.32000	980.32000	83.00000	980.32000	979.93000	84.00000	77.00000	6.83330	99.76800
-5.472	489.630	979.67000	979.67000	83.00000	979.67000	979.93000	84.00000	77.00000	6.93220	99.76800
-5.470	503.520	979.63000	979.63000	83.00000	979.63000	979.93000	84.00000	77.00000	5.74760	99.76800
-5.481	603.720	978.73000	978.73000	83.00000	979.73000	979.93000	84.00000	77.00000	4.10800	99.76800
-5.531	789.310	979.81000	979.81000	83.00000	979.81000	979.93000	84.00000	77.00000	2.43500	99.76800
-5.524	819.450	979.83000	979.83000	83.00000	979.83000	979.93000	84.00000	77.00000	1.35980	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2488/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPCAL	TB1	TB2	DT	T
-.046	20.657	977.23000	977.23000	79.00000	977.23000	977.03000	64.00000	73.00000	-4.42980	100.02000
.029	48.809	977.33000	977.33000	79.00000	977.33000	977.03000	64.00000	73.00000	-6.12640	100.02000
.046	98.549	976.90000	976.90000	79.00000	976.90000	977.03000	64.00000	73.00000	-7.90970	100.02000
.022	149.020	976.81000	976.81000	79.00000	976.81000	977.03000	64.00000	73.00000	-8.88560	100.02000
.002	189.240	976.87000	976.87000	79.00000	976.87000	977.03000	64.00000	73.00000	-7.37990	100.02000
.032	283.640	976.21000	976.21000	79.00000	976.21000	977.03000	64.00000	73.00000	-4.04300	100.02000
.034	323.620	976.33000	976.33000	79.00000	976.33000	977.03000	64.00000	73.00000	-1.76090	100.02000
.034	483.730	976.03000	976.03000	79.00000	976.03000	977.03000	64.00000	73.00000	-.77512	100.02000
.023	583.630	975.83000	975.83000	79.00000	975.83000	977.03000	64.00000	73.00000	-.77876	100.02000
-.054	789.620	976.72000	976.72000	79.00000	976.72000	977.03000	64.00000	73.00000	-1.24170	100.02000
.010	959.270	976.34000	976.34000	79.00000	976.34000	977.03000	64.00000	73.00000	-1.86240	100.02000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2491/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPCAL	TB1	TB2	DT	T
4.954	-50.481	975.84000	975.84000	80.00000	975.84000	975.63009	65.00000	73.00000	-6.16050	100.02000
5.050	13.035	975.41000	975.41000	80.00000	975.41000	975.63009	65.00000	73.00000	-8.53470	100.02000
5.008	48.931	975.60000	975.60000	80.00000	975.60000	975.63009	65.00000	73.00000	-9.90280	100.02000
5.004	99.003	975.16000	975.16000	80.00000	975.16000	975.63009	65.00000	73.00000	-10.72200	100.02000
5.026	193.520	977.33000	977.33000	80.00000	977.33000	975.63009	65.00000	73.00000	-8.53550	100.02000
5.028	283.530	977.17000	977.17000	80.00000	977.17000	975.63009	65.00000	73.00000	-6.51180	100.02000
5.021	383.610	976.93000	976.93000	80.00000	976.93000	975.63009	65.00000	73.00000	-4.93410	100.02000
4.993	583.800	976.67000	976.67000	80.00000	976.67000	975.62959	66.00000	73.00000	-4.21730	100.02000
	GRADIENT	74.82433	74.82433	6.13885	74.82433	74.81819	5.06290	5.59928	-.65930	7.67260

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D8A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK021) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2789/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.040	625.430	400.32000	-.35719	-25.05600	2.99310	-.5 997	-.06272	-.03450	-.00844	.00075	.11593
-20.013	700.020	400.04000	.00836	-25.01800	2.99540	-.5 828	-.05995	-.03491	-.00862	.00098	.12159
-19.967	799.100	399.75000	.06232	-24.96100	2.99540	-.5 662	-.02911	-.03707	-.00824	.00099	.13247
-20.015	999.720	400.20000	.43837	-25.00700	3.00270	-.6 810	.03871	-.03703	-.00787	.00149	.17579
	GRADIENT	.00000	.00000	.00000	.00000	.0 1000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2793/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.035	475.120	400.22000	-.19251	-20.04500	2.99460	-.4 3995	-.03515	-.03444	-.00814	.00095	.12220
-15.058	500.170	400.20000	-.33218	-20.06300	2.99350	-.3 9469	-.03558	-.03564	-.00687	.00064	.10739
-15.011	549.530	400.06000	-.29726	-20.01300	2.99380	-.3 7860	-.06292	-.03421	-.00959	.00063	.10823
-14.996	599.350	399.96000	.16281	-19.99400	2.99560	-.3 3308	-.05220	-.03526	-.00818	.00065	.11382
-14.964	698.900	399.90000	.01011	-19.95500	2.99440	-.4 2282	-.02693	-.03718	-.00722	.00076	.12359
-14.954	798.570	399.95000	-.06449	-19.94500	2.99540	-.4 1336	.00355	-.03811	-.00709	.00081	.13961
-14.953	998.130	399.78000	.05313	-19.94400	3.00180	-.4 1553	.02571	-.03336	-.00972	.00079	.16707
	GRADIENT	.00000	.00000	.00000	.00000	.0 1000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2797/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.053	325.580	400.15000	.07526	-15.05000	2.99540	-.3 5429	-.02923	-.03556	-.00924	.00087	.12360
-10.010	349.360	400.05000	-.07144	-15.00900	2.99820	-.3 3623	-.02927	-.03112	-.00980	.00048	.11913
-10.051	399.710	400.15000	-.00549	-15.05200	2.99570	-.2 1756	-.05592	-.03406	-.00860	.00045	.09904
-10.004	449.330	400.12000	-.33556	-15.00300	2.99210	-.2 1281	-.05379	-.03356	-.00931	.00052	.10238
-9.994	499.200	400.12000	-.55334	-14.99300	2.98710	-.2 0221	-.04379	-.03498	-.00834	.00053	.10511
-9.970	598.800	400.03000	-.20189	-14.97200	2.99120	-.3 1170	-.02081	-.03512	-.00736	.00055	.11495
-9.964	698.570	400.05000	-.10728	-14.96300	2.98330	-.3 3101	.00301	-.03543	-.00753	.00051	.12894
-9.967	798.610	400.04000	-.00164	-14.96300	2.98930	-.3 1052	.02128	-.03339	-.00841	.00063	.14341
-10.091	1000.000	400.42000	-.26865	-15.08300	2.99460	-.2 0336	-.03170	-.03399	-.00827	.00031	.10708
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ET SEPARATING FROM O/B (04RC1) (AVK021) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.1200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2801/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.543	200.360	400.10000	-.11023	-10.52300	2.99380	-.21538	-.03628	-.04170	-.00782	.00035	.11094
-5.482	248.860	400.11000	-.23461	-10.47000	2.99620	-.21985	-.03144	-.03994	-.00351	.00035	.11035
-5.519	299.260	400.21000	-.39707	-10.51500	2.99410	-.2 769	-.04399	-.03546	-.00937	.00043	.10106
-5.489	398.870	400.11000	-.24414	-10.48600	2.99170	-.2 088	-.03549	-.03582	-.00801	.00041	.09979
-5.472	498.660	400.01000	.01450	-10.48600	2.99390	-.21240	-.01686	-.03527	-.00744	.00039	.10624
-5.470	598.520	400.09000	.26395	-10.46200	3.00070	-.21400	.00299	-.03363	-.00780	.00031	.11681
-5.481	698.720	400.17000	-.19389	-10.47200	2.99480	-.20548	.01600	-.03124	-.00851	.00034	.12903
-5.531	799.310	400.23000	.28194	-10.52200	3.00250	-.19525	-.00024	-.02980	-.00952	.00021	.12060
-5.524	819.450	400.27000	-.26814	-10.51500	2.99240	-.18114	-.00811	-.02961	-.00931	.00018	.11479
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2488/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.046	20.857	400.03000	.47477	-5.00310	3.00710	-.16327	-.05221	-.03160	-.01179	.00071	.10114
.029	48.809	400.03000	.32452	-4.93330	2.99350	-.16048	-.04165	-.03327	-.01004	.00051	.10222
.046	98.549	400.04000	.08594	-4.92770	2.99330	-.15816	-.02829	-.03327	-.01043	.00022	.10212
.022	149.020	400.13000	.18723	-4.93040	3.00170	-.15371	-.02445	-.03268	-.01190	.00029	.09839
.002	199.240	400.03000	.36552	-4.92330	3.00020	-.17320	-.03144	-.03390	-.01172	.00037	.09355
.032	298.640	400.17000	.09783	-4.96110	2.99250	-.18563	-.02134	-.03864	-.00851	.00047	.09167
.034	398.620	400.32000	.09551	-4.96920	2.99370	-.17260	-.00395	-.03741	-.00730	.00039	.09919
.034	498.790	400.22000	-.03476	-4.95740	2.99570	-.18729	.01084	-.03329	-.00798	.00034	.10627
.023	598.660	400.18000	-.20121	-4.96920	2.99740	-.17112	.01887	-.02760	-.01047	.00044	.11368
-.054	798.690	400.31000	.25206	-5.04520	2.99930	-.08241	-.01578	-.02891	-.01044	.00026	.09101
.010	939.270	400.27000	.27746	-4.93110	2.99970	-.06359	-.01539	-.02882	-.01022	.00027	.09287
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2491/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.984	-50.481	400.14000	-.46576	.02455	2.99190	-.10034	-.04001	-.03918	-.00622	.00045	.10341
5.050	13.036	400.21000	.10460	.09161	3.00950	-.09127	-.02032	-.02953	-.01137	.00019	.09835
5.008	48.951	400.21000	.12709	.03175	3.00130	-.08081	-.01752	-.02694	-.01309	.00021	.09476
5.004	99.003	400.20000	.00321	.02022	2.99360	-.08552	-.01938	-.03142	-.01155	.00032	.08926
5.026	198.520	400.30000	-.21034	.03595	2.99750	-.09183	-.00903	-.03486	-.00948	.00036	.09474
5.028	298.530	400.28000	-.58091	.03465	2.98440	-.08665	.00789	-.03317	-.00900	.00029	.09039
5.021	398.610	400.26000	-.03549	.02864	2.99590	-.08629	.02106	-.02917	-.00891	.00025	.10163
4.993	598.680	400.21000	.40673	.00147	3.00520	-.08064	.00938	-.02547	-.01141	.00013	.09341
	GRADIENT	30.70037	.00802	.00626	.23086	-.01700	-.00156	-.00227	-.00087	.00001	.00754

V418-D8A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2790/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.013	625.170	600.11000	.06501	-.00061	.23401	-.02142	-.03074	.00021	.00263	-.01532	.23319
-20.028	700.450	600.21000	-.00243	-.00223	.20443	-.01053	-.03448	-.00122	.00099	-.00927	.23331
-20.004	799.530	600.02000	-.14704	-.00547	.16581	-.00408	-.03532	-.00079	-.00001	-.00428	.23331
-20.052	1000.500	600.23000	.11911	-.00257	.15454	-.00217	-.03534	-.00076	.00004	-.00261	.23304
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2794/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-14.993	474.580	600.14000	.60830	.00641	.25119	-.02100	-.03195	-.00015	.00145	-.00823	.23377
-15.004	499.830	600.19000	.25593	.00490	.22527	-.01872	-.03147	.00009	.00195	-.01049	.23356
-15.026	549.960	600.21000	.07412	-.00318	.19364	-.01201	-.03165	-.00008	.00099	-.00930	.23372
-15.035	600.150	600.30000	-.15335	-.00362	.17883	-.00682	-.03539	-.00106	.00072	-.00581	.23393
-15.070	700.600	600.41000	-.24100	-.00581	.15235	-.00275	-.03571	-.00076	.00007	-.00171	.23419
-15.007	799.410	600.09000	-.07026	-.00496	.15073	-.00234	-.03589	-.00075	.00005	-.00154	.23313
-15.005	939.800	600.23000	-.09172	-.00712	.15059	-.00234	-.03576	-.00076	.00005	-.00166	.23380
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.018	324.910	600.14000	.25297	-.00075	.28922	-.01669	-.03194	-.00054	.00045	-.00030	.23424
-9.994	349.650	600.15000	-.08928	-.00087	.26226	-.01712	-.03177	-.00041	.00075	-.00240	.23386
-10.002	399.730	600.12000	.14835	-.00093	.21575	-.01534	-.03168	-.00008	.00127	-.00622	.23391
-10.024	449.800	600.15000	.01315	-.00499	.18055	-.01039	-.03229	-.00012	.00104	-.00736	.23403
-10.054	500.300	600.25000	.75506	.00797	.16848	-.00529	-.03582	-.00094	.00049	-.00382	.23414
-10.056	600.340	600.33000	.15621	-.00165	.14933	-.00243	-.03591	-.00075	.00002	-.00060	.23421
-10.059	700.490	600.35000	.31435	.00032	.14902	-.00237	-.03585	-.00077	.00004	-.00054	.23341
-10.009	800.000	600.29000	.00559	-.00534	.14894	-.00242	-.03607	-.00076	.00001	-.00037	.23392
-9.967	953.780	600.06000	-.10698	-.00425	.14887	-.00236	-.03567	-.00081	.00002	-.00048	.23427
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2802/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.552	200.450	600.24000	-.01962	-.00663	.29228	-.00249	-.03560	-.00169	-.00088	.00015	.23385
-5.511	249.970	600.25000	.04957	-.00247	.27972	-.01283	-.03509	-.00138	.00109	.00237	.23404
-5.504	299.840	600.25000	-.25254	-.00855	.22976	-.01453	-.03500	-.00131	.00107	-.00196	.23392
-5.547	400.330	600.26000	.20284	.00162	.17263	-.00733	-.03571	-.00092	.00010	-.00400	.23427
-5.558	500.380	600.31000	-.03150	-.00482	.15168	-.00304	-.03581	-.00077	.00006	.00019	.23404
-5.552	600.290	600.23000	.19518	-.00236	.14818	-.00235	-.03606	-.00076	.00000	.00077	.23409
-5.531	699.950	600.35000	-.15621	-.00827	.14850	-.00238	-.03583	-.00077	-.00000	.00059	.23409
-5.513	799.460	600.19000	.10471	-.00291	.14794	-.00237	-.03586	-.00080	.00001	.00073	.23421
-5.479	819.020	600.11000	-.00752	-.00353	.14885	-.00237	-.03595	-.00076	-.00000	.00057	.23421
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2790/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.013	625.170	-5.00400	2.99901	-.00061	-.10008	-.01045	.02874	-.02334	-.00073	.00267
-20.028	700.450	-4.99300	3.00082	-.00223	-.12999	.00046	.03484	-.02707	-.00216	.00104
-20.004	799.530	-4.99200	3.00047	-.00547	-.16916	.00693	.03930	-.02790	-.00173	.00004
-20.052	1000.500	-4.99100	3.00047	-.00257	-.18034	.00683	.04156	-.02792	-.00171	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2794/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.993	474.580	-5.00300	2.99949	.00641	-.07790	-.01019	.03517	-.02466	-.00108	.00149
-15.004	499.830	-5.00300	2.99920	.00490	-.10387	-.00790	.03292	-.02418	-.00083	.00199
-15.026	549.960	-4.99300	2.99948	-.00318	-.13566	-.00119	.03413	-.02435	-.00101	.00103
-15.035	600.150	-4.99400	3.00072	-.00352	-.15015	.00419	.03758	-.02810	-.00199	.00076
-15.070	700.600	-4.99100	3.00041	-.00591	-.17711	.00807	.04174	-.02841	-.00168	.00011
-15.007	799.410	-4.99200	3.00046	-.00496	-.17835	.00849	.04192	-.02858	-.00168	.00009
-15.005	999.800	-4.99100	3.00042	-.00712	-.17933	.00650	.04185	-.02845	-.00169	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.018	324.910	-4.99300	2.99895	-.00075	-.03930	-.00593	.04289	-.02469	-.00146	.00050
-9.984	349.650	-4.99350	2.99877	-.00097	-.06438	-.00637	.04076	-.02451	-.00133	.00079
-10.002	399.730	-5.00000	2.99843	-.00093	-.11163	-.00458	.03885	-.02443	-.00100	.00131
-10.024	449.800	-4.99300	2.99859	-.00499	-.14250	.00037	.03578	-.02503	-.00104	.00109
-10.054	500.300	-4.99300	3.00063	.00797	-.15932	.00548	.03942	-.02856	-.00186	.00053
-10.056	600.340	-4.99100	3.00045	-.00165	-.17827	.00833	.04261	-.02865	-.00167	.00006
-10.059	700.490	-4.99100	3.00048	.00032	-.17838	.00839	.04264	-.02861	-.00170	.00009
-10.009	800.000	-4.99100	3.00044	-.00534	-.17812	.00833	.04277	-.02883	-.00168	.00006
-9.967	998.780	-4.99130	3.00055	-.00425	-.17865	.00840	.04271	-.02841	-.00174	.00006
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2802/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.552	200.450	-4.99510	3.00153	-.00663	-.03487	.00825	.04330	-.02835	-.00261	-.00083
-5.511	249.970	-4.99510	3.00097	-.00247	-.04764	-.00277	.04555	-.02783	-.00230	.00114
-5.504	299.840	-4.99500	3.00095	-.00655	-.09753	-.00378	.04121	-.02774	-.00223	.00111
-5.547	400.330	-4.99520	3.00058	.00162	-.15485	.00342	.03916	-.02846	-.00184	.00015
-5.558	500.380	-4.99150	3.00042	-.00482	-.17547	.00771	.04334	-.02856	-.00169	.00011
-5.552	600.290	-4.99110	3.00046	-.00235	-.17652	.00839	.04385	-.02832	-.00168	.00005
-5.531	699.950	-4.99150	3.00047	-.00527	-.17879	.00837	.04376	-.02838	-.00169	.00004
-5.513	799.460	-4.99180	3.00051	-.00291	-.17859	.00836	.04380	-.02863	-.00172	.00005
-5.479	819.020	-4.99150	3.00043	-.00353	-.17849	.00838	.04374	-.02870	-.00168	.00004
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2790/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.013	625.170	600.11000	.06501	.06213	-.01145	442.23000	.00000	.00000	661.84000	.00000	.00000
-20.028	700.450	600.21000	-.00243	.03469	-.05360	442.68000	.00000	.00000	662.50000	.00000	.00000
-20.004	799.530	600.02000	-.14704	.04067	-.05280	443.40000	.00000	.00000	663.59000	.00000	.00000
-20.052	1000.500	600.23000	.11911	.04682	-.06773	443.29000	.00000	.00000	663.42000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2794/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.993	474.580	600.14000	.60630	.03822	-.09175	435.61000	.00000	.00000	651.92000	.00000	.00000
-15.004	499.830	600.19000	.25593	.07860	.02891	435.67000	.00000	.00000	652.02000	.00000	.00000
-15.026	549.960	600.21000	.07412	.03076	-.02720	435.91000	.00000	.00000	652.37000	.00000	.00000
-15.035	600.150	600.30000	-.15335	.03035	-.02081	435.47000	.00000	.00000	651.72000	.00000	.00000
-15.070	700.600	600.41000	-.24100	.03252	-.02383	436.11000	.00000	.00000	652.67000	.00000	.00000
-15.007	799.410	600.09000	-.07026	.03414	-.03181	436.23000	.00000	.00000	652.90000	.00000	.00000
-15.005	999.800	600.23000	-.08172	.04003	-.04255	436.72000	.00000	.00000	653.58000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.018	324.910	600.14000	.25297	-.00844	-.14702	433.53000	.00000	.00000	648.82000	.00000	.00000
-9.994	349.650	600.15000	-.08928	-.01208	-.14703	433.16000	.00000	.00000	648.27000	.00000	.00000
-10.002	399.730	600.12000	.14835	.03303	-.03559	433.35000	.00000	.00000	648.55000	.00000	.00000
-10.024	449.800	600.15000	.01315	.02547	-.00003	433.08000	.00000	.00000	648.10000	.00000	.00000
-10.054	500.300	600.25000	.75506	.02034	-.00911	433.91000	.00000	.00000	649.38000	.00000	.00000
-10.056	600.340	600.33000	.15821	.02038	-.01176	433.65000	.00000	.00000	648.99000	.00000	.00000
-10.059	700.490	600.33000	.31435	.02219	-.01335	433.33000	.00000	.00000	648.53000	.00000	.00000
-10.009	800.000	600.23000	.00839	.02346	-.01335	432.93000	.00000	.00000	647.92000	.00000	.00000
-9.967	938.780	600.06000	-.10598	.02568	-.01836	433.53000	.00000	.00000	648.82000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(04RC1 W/ET SEPARATING (TVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	800.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2802/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CMMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.552	200.450	600.24000	-.01952	.00769	-.09111	433 03000	.00000	.00000	648.09000	.00000	.00000
-5.511	249.970	600.23000	.04987	-.01734	-.10323	433 33000	.00000	.00000	649.51000	.00000	.00000
-5.504	299.840	600.23000	-.20954	-.01294	-.07695	433 23000	.00000	.00000	648.37000	.00000	.00000
-5.547	400.330	600.23000	.20284	.01733	-.00043	433 22000	.00000	.00000	648.35000	.00000	.00000
-5.558	500.380	600.31000	-.03150	.01661	-.00435	433 05000	.00000	.00000	648.10000	.00000	.00000
-5.552	600.290	600.23000	.19518	.01697	-.00023	432 46000	.00000	.00000	647.21000	.00000	.00000
-5.531	699.950	600.33000	-.15321	.01817	-.00799	433 24000	.00000	.00000	648.35000	.00000	.00000
-5.513	799.450	600.19000	.10471	.01823	-.00034	433 20000	.00000	.00000	646.83000	.00000	.00000
-5.479	819.020	600.11000	-.00782	.02005	-.01082	433 28000	.00000	.00000	648.45000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1 W/ET SEPARATING (UVK022) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	800.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2790/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.013	625.170	978.21000	978.21000	85.00000	978.21000	978.41000	85.00000	76.00000	-.58887	99.76800
-20.028	700.450	978.22000	978.22000	85.00000	978.22000	978.41000	86.00000	76.00000	-.63732	99.76800
-20.004	799.530	978.35000	978.35000	85.00000	978.35000	978.41000	86.00000	76.00000	1.01670	99.76800
-20.052	1000.500	978.60000	978.60000	85.00000	978.60000	978.41000	86.00000	76.00000	3.76250	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC) W/ET SEPARATING (UVK022) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA	=	-5.000	BETA	=	3.000
DBETA	=	.000	X	=	600.000
Y	=	.000	ELEVON	=	.000
UMBLDR	=	.000	RCS	=	1.000
GAS	=	1.000			

RUN NO. 2794/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.993	474.580	978.95000	978.95000	84.00000	978.95000	978.84000	86.00000	77.00000	8.59750	99.64200
-15.004	499.830	979.09000	979.09000	84.00000	979.09000	978.84000	86.00000	77.00000	1.25960	99.64200
-15.026	549.960	979.14000	979.14000	84.00000	979.14000	978.84000	86.00000	77.00000	-.27085	99.64200
-15.035	600.150	979.13000	979.13000	84.00000	979.13000	978.84000	86.00000	77.00000	.73505	99.64200
-15.070	700.600	979.11000	979.11000	84.00000	979.11000	978.84000	86.00000	77.00000	1.86910	99.64200
-15.007	799.410	978.97000	978.97000	84.00000	978.97000	978.84000	86.00000	77.00000	2.81310	99.64200
-15.005	999.800	979.03000	979.03000	84.00000	979.03000	978.84000	86.00000	77.00000	5.57070	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.018	324.910	979.55000	979.55000	83.00000	979.55000	979.35999	85.00000	77.00000	13.81000	99.64200
-9.994	349.650	979.20000	979.20000	83.00000	979.20000	979.35999	85.00000	77.00000	9.74950	99.64200
-10.002	399.730	979.14000	979.14000	83.00000	979.14000	979.35999	85.00000	77.00000	2.22410	99.64200
-10.024	449.800	979.43000	979.43000	83.00000	979.43000	979.35999	85.00000	77.00000	-1.83850	99.64200
-10.054	500.300	979.44000	979.44000	83.00000	979.44000	979.35999	85.00000	77.00000	-1.34730	99.64200
-10.056	600.340	979.34000	979.34000	83.00000	979.34000	979.35999	85.00000	77.00000	-.74629	99.64200
-10.059	700.490	979.21000	979.21000	83.00000	979.21000	979.35999	85.00000	77.00000	.00508	99.64200
-10.009	800.000	979.15000	979.15000	83.00000	979.15000	979.35999	85.00000	77.00000	1.18970	99.64200
-9.967	998.780	979.55000	979.55000	83.00000	979.55000	979.35999	85.00000	77.00000	2.61750	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2802/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.552	200.450	979.69000	979.69000	83.00000	979.69000	979.77000	84.00000	77.00000	6.97020	99.76800
-5.511	249.970	980.05000	980.05000	83.00000	980.05000	979.77000	84.00000	77.00000	6.16830	99.76800
-5.504	299.840	979.83000	979.83000	83.00000	979.83000	979.77000	84.00000	77.00000	.22788	99.76800
-5.547	400.330	979.80000	979.80000	83.00000	979.80000	979.77000	84.00000	77.00000	-3.23620	99.76800
-5.558	500.330	979.90000	979.90000	83.00000	979.90000	979.77000	84.00000	77.00000	-3.06660	99.76800
-5.552	600.290	979.93000	979.93000	83.00000	979.93000	979.77000	84.00000	77.00000	-2.55530	99.76800
-5.531	659.950	979.84000	979.84000	83.00000	979.84000	979.77000	84.00000	77.00000	-1.90650	99.76800
-5.513	799.460	979.94000	979.94000	83.00000	979.94000	979.77000	84.00000	77.00000	-1.22920	99.76800
-5.479	819.020	979.96000	979.96000	83.00000	979.96000	979.77000	84.00000	77.00000	-.65481	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK022) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DSETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2790/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.013	625.170	600.11000	.06501	-25.01700	2.99340	-.52269	-.06853	-.03605	-.00810	.00080	.12016
-20.028	700.450	600.21000	-.00243	-25.02400	2.99030	-.52005	-.06551	-.03668	-.00787	.00109	.12826
-20.004	799.530	600.02000	-.14704	-24.99300	2.99500	-.53204	-.05359	-.03756	-.00709	.00116	.12442
-20.052	1000.500	600.23000	.11911	-25.04300	2.99791	-.60520	.01311	-.03941	-.00682	.00140	.15671
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2794/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.993	474.580	600.14000	.60630	-19.99300	3.00590	-.43960	-.05122	-.03259	-.00953	.00069	.12555
-15.004	499.830	600.19000	.25593	-20.00700	3.00410	-.41832	-.06175	-.03145	-.00897	.00078	.11652
-15.026	549.960	600.21000	.07412	-20.02400	2.99330	-.39070	-.06076	-.03385	-.00660	.00065	.11249
-15.035	600.150	600.30000	-.15335	-20.02600	2.99710	-.40188	-.05979	-.03535	-.00772	.00074	.11649
-15.070	700.600	600.41000	-.24100	-20.06100	2.99460	-.41021	-.04613	-.03753	-.00693	.00084	.11490
-15.007	799.410	600.09000	-.07026	-19.99300	2.99350	-.43736	-.01846	-.03771	-.00692	.00086	.12909
-15.005	989.800	600.23000	-.08172	-19.99600	2.99330	-.47629	.03257	-.03533	-.00843	.00101	.16341
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2798/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.018	324.910	600.14000	.25297	-15.01600	2.99920	-.35169	-.04461	-.04394	-.00929	.00063	.12195
-9.994	349.650	600.15000	-.08928	-14.99400	2.99590	-.34975	-.04122	-.04252	-.00942	.00049	.12188
-10.002	399.730	600.12000	.14835	-15.00200	2.99250	-.32231	-.05288	-.04115	-.00719	.00066	.11363
-10.024	449.800	600.15000	.01315	-15.02200	2.99460	-.29651	-.06051	-.03887	-.00716	.00065	.10785
-10.054	500.300	600.25000	.75306	-15.04700	3.00660	-.29441	-.05444	-.03570	-.00793	.00058	.10663
-10.056	600.340	600.33000	.15321	-15.04700	2.99230	-.30127	-.03765	-.03838	-.00720	.00059	.10865
-10.059	700.490	600.35000	.31435	-15.05000	3.00080	-.32071	-.01504	-.03385	-.00742	.00050	.11746
-10.009	800.000	600.22000	.00559	-15.00000	2.99510	-.33379	.00590	-.03549	-.00772	.00054	.13100
-9.967	989.780	600.06000	-.10838	-14.99300	2.99330	-.27595	-.00522	-.03333	-.00890	.00033	.13182
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK022) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2802/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.552	200.450	600.24000	-.01962	-10.53700	2.99490	-.26276	-.05147	-.04256	-.00739	.00049	.11187
-5.511	249.970	600.25000	.04967	-10.50500	2.99850	-.27289	-.03603	-.04247	-.00871	.00041	.11645
-5.504	299.840	600.25000	-.25254	-10.50300	2.99440	-.25193	-.04068	-.04218	-.00868	.00032	.10778
-5.547	400.330	600.26000	.20284	-10.54200	3.00220	-.21805	-.04846	-.03796	-.00825	.00054	.10169
-5.558	500.380	600.31000	-.03150	-10.54900	2.99860	-.21853	-.03233	-.03888	-.00689	.00049	.10089
-5.552	600.290	600.23000	.19518	-10.54300	2.99910	-.22917	-.01226	-.03558	-.00742	.00041	.10769
-5.531	699.950	600.33000	-.15521	-10.52300	2.99220	-.23565	.00557	-.03341	-.00810	.00031	.11955
-5.513	799.460	600.19000	.10471	-10.50500	2.99760	-.23061	.01410	-.03094	-.00903	.00038	.12767
-5.479	819.020	600.11000	-.00752	-10.47000	2.99390	-.22532	.01320	-.03020	-.00941	.00033	.12785
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC2) W/ET SEPARATING (RVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2847/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.008	624.920	.00861	.24638	-.00262	.50144	-.01676	-.12183	.02630	-.00355	.00085	.27538
-19.956	698.630	-.16118	-.02405	-.00253	.45631	-.03294	-.12020	.02554	-.00296	-.00037	.27552
-19.933	798.290	-.27825	-.18325	-.00573	.38045	-.03354	-.11745	.02499	-.00071	-.00627	.27550
-20.050	999.550	.04270	.05655	-.00377	.19753	-.00907	-.11936	.02609	-.00481	-.00426	.27545
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2851/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.005	474.550	.08126	-.44575	-.01071	.46838	-.01439	-.11952	.02506	-.00439	-.00046	.27590
-15.029	499.600	.17532	-.82751	-.01227	.42915	-.02089	-.11628	.02392	-.00340	.00020	.27650
-14.982	548.880	-.06708	.45907	.00345	.35538	-.03301	-.11604	.02453	-.00164	-.00158	.27587
-14.971	598.960	.00451	-.05265	-.00406	.33542	-.03315	-.11342	.02497	-.00233	-.00947	.27616
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-09A (IA22),ORBITER(04FC2) W/ET SEPARATING (RVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2855/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.010	324.540	.08176	-.03851	-.00513	.38463	-.00371	-.12435	.02557	-.00447	-.00214	.27624
-10.030	349.650	.12232	-.25603	-.00801	.34699	-.00644	-.12105	.02487	-.00456	-.00653	.27598
-10.007	399.110	.04560	-.66518	-.01280	.31476	-.01652	-.11605	.02353	-.00338	-.00924	.27596
-9.982	448.910	.11603	.09386	-.00189	.27738	-.02239	-.11247	.02451	-.00288	-.01207	.27637
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2859/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.511	199.460	.17515	-.30934	-.00853	.31796	.01220	-.12199	.02479	-.00458	-.00112	.27577
-5.519	249.230	.19331	-.15872	-.00636	.26983	.00215	-.12216	.02497	-.00491	-.00540	.27569
-5.497	298.930	.15254	.03476	-.00347	.24987	-.00588	-.12027	.02486	-.00478	-.00843	.27601
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2480/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
.007	19.477	.11423	.09023	-.00542	.17564	.00825	-.12642	.02591	-.00569	.01892	.27896
-.012	50.046	.09580	-.35776	-.00670	.19798	.01149	-.13094	.02619	-.00589	.01964	.27879
.013	99.450	.12682	-.23907	-.00630	.22307	.01339	-.12938	.02728	-.00525	.01091	.27617
.018	149.140	.11114	-.01691	-.00501	.22735	.00863	-.12893	.02682	-.00517	.00698	.27771
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2483/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.958	-49.197	.32341	2.00610	.06860	.14286	-.00272	-.12365	.02665	-.00569	.01478	.27843
4.971	15.307	.09390	.17204	-.00213	.18763	.00350	-.12559	.02546	-.00577	.01975	.27857
4.996	49.345	.09370	.23034	-.00182	.18344	.00025	-.12169	.02606	-.00530	.01057	.27859
5.011	99.112	.20155	-.12067	-.00497	.19037	.00731	-.12328	.02579	-.00509	.00734	.27850
5.029	158.400	.25034	.09977	-.00020	.19139	.00078	-.12713	.02769	-.00505	.00603	.28082
5.025	298.750	.23971	.52214	.00822	.18726	-.00453	-.12394	.02789	-.00455	.00544	.28082
4.984	399.340	.23468	.20518	.00141	.16932	-.00507	-.12675	.02835	-.00543	.00206	.28186
4.977	599.620	.25752	-.10678	-.00392	.15311	-.00263	-.12502	.02854	-.00578	.00361	.28077
	GRADIENT	.00587	.01124	-.00014	.01226	.00024	-.00823	.00166	-.00038	.00129	.01820

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (SVKOL) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2847/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.008	624.920	-4.98800	2.97222	-.00262	.16945	-.00675	.03228	-.03507	.00041	.00177
-19.956	699.630	-5.[illegible]	2.97283	-.00253	.12467	-.02294	.03102	-.03352	-.00032	.00236
-19.933	798.290	-5.00[illegible]	2.97333	-.00373	.04913	-.02355	.02509	-.03087	-.00085	.00460
-20.050	999.550	-4.99800	2.97247	-.00377	-.14442	.00093	.02717	-.03261	.00020	.00051
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2851/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.005	474.550	-4.98700	2.97331	-.01071	.13863	-.00445	.03076	-.03334	-.00065	.00090
-15.029	499.600	-4.98400	2.97447	-.01227	.09913	-.01094	.03144	-.03003	-.00182	.00189
-14.982	548.880	-5.00900	2.97365	.00345	.06597	-.02306	.02970	-.02967	-.00125	.00366
-14.971	598.960	-5.01000	2.97306	-.00406	.00683	-.02322	.02174	-.02727	-.00074	.00296
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2855/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.010	324.540	-4.99100	2.97293	-.00513	.05545	.00671	.02902	-.03832	-.00010	.00081
-10.030	349.650	-4.98800	2.97351	-.00801	.01847	.00346	.02457	-.03519	-.00076	.00071
-10.007	399.110	-4.98500	2.97480	-.01280	-.01383	-.00661	.02187	-.03018	-.00210	.00189
-9.982	448.910	-5.00300	2.97359	-.00189	-.05143	-.01248	.01905	-.02655	-.00113	.00239
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2859/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.511	199.460	-4.98930	2.97393	-.00853	-.01157	.02213	.03007	-.03587	-.00090	.00071
-5.519	249.230	-4.98090	2.97366	-.00636	-.06093	.01209	.02582	-.03596	-.00075	.00038
-5.497	298.930	-4.98560	2.97357	-.00347	-.08013	.00407	.02281	-.03401	-.00088	.00051
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2480/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.007	19.477	-4.98022	2.97302	-.00542	-.15603	.01824	.05032	-.03972	-.00006	-.00037
-.012	50.046	-4.97616	2.97280	-.00670	-.13417	.02149	.05108	-.04414	.00028	-.00056
.013	99.450	-4.97273	2.97159	-.00860	-.10883	.02399	.04233	-.04293	.00140	.00007
.018	149.140	-4.97734	2.97191	-.00501	-.10403	.01882	.03935	-.04030	.00097	.00015
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04R:2) W/ET SEPARATING (SVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2483/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.958	-49.197	-4.99174	2.97200	.06950	-.18991	.00731	.04629	-.03668	.00070	-.00035
4.971	15.307	-4.98390	2.97343	-.00213	-.14487	.01362	.05124	-.03907	-.00048	-.00044
4.996	49.345	-4.97957	2.97272	-.00192	-.14313	.01827	.04205	-.03477	.00012	.00003
5.011	99.112	-4.97991	2.97207	-.00097	-.13345	.01735	.03987	-.03920	.00082	
5.029	198.400	-4.98620	2.97090	-.00020	-.14162	.01083	.03756	-.04010	.00172	
5.025	298.750	-4.99128	2.97068	.00822	-.14753	.00556	.03714	-.03544	.00177	.00082
4.984	399.340	-4.99344	2.97019	.00141	-.16570	.02402	.03378	-.03920	.00223	-.00005
4.977	599.626	-4.99109	2.97002	-.00892	-.16281	.00749	.03539	-.03728	.00236	-.00040
	GRADIENT	-.32560	.19425	-.00014	-.00947	.00089	.00335	-.00255	-.00003	-.00003

V41B-D9A (IA22),ORBITER(04R:2) W/ET SEPARATING (TVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2847/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.008	624.920	.00661	.24638	-.01946	-.15884	4316.01000	.00000	.00000	652.52000	216.30000	.00000
-19.956	693.630	-.16118	-.02405	-.05284	-.20532	4315.57000	.00000	.00000	651.87000	216.08000	.00000
-19.933	798.290	-.27825	-.18325	.04247	-.06169	4315.12000	.00000	.00000	651.20000	215.86000	.00000
-20.050	999.550	.04270	.06655	.03810	-.07535	4315.97000	.00000	.00000	652.46000	216.28000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2851/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.005	474.550	.08126	-.44575	-.07025	-.26070	4313.02000	.00000	.00000	648.14000	214.85000	.00000
-15.029	499.600	.17532	-.82751	-.04920	-.22093	4313.44000	.00000	.00000	648.68000	215.02000	.00000
-14.982	548.880	-.06708	.45907	.00158	-.18592	4314.07000	.00000	.00000	649.63000	215.34000	.00000
-14.971	598.960	.00451	-.05265	.21068	.06536	4312.92000	.00000	.00000	647.91000	214.77000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04R2) W/ET SEPARATING (TVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2655/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.010	324.540	.08176	-.03851	-.13267	-.36261	4?2.33000	.00000	.00000	647.02000	214.47000	.00000
-10.030	349.650	.12232	-.28603	.02697	-.16545	4?1.49000	.00000	.00000	645.74000	214.05000	.00000
-10.007	399.110	.04530	-.68618	.03416	-.14132	4?1.55000	.00000	.00000	645.85000	214.09000	.00000
-9.982	448.910	.11803	.09585	.02642	-.13385	4?1.81000	.00000	.00000	646.23000	214.21000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2659/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.511	199.460	.17515	-.30934	.02067	-.13408	4?2.80000	.00000	.00000	647.72000	214.70000	.00000
-5.519	249.230	.19331	-.15872	.02433	-.13015	4?3.18000	.00000	.00000	648.29000	214.89000	.00000
-5.497	293.930	.15284	.03476	.00315	-.12808	4?3.48000	.00000	.00000	648.73000	215.04000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2480/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.007	19.477	.11423	.09023	-.01486	-.09320	4?5.69000	.00000	.00000	652.05000	216.14000	.00000
-.012	50.046	.08030	-.35776	.03237	-.00948	4?6.24000	.00000	.00000	652.87000	216.41000	.00000
.013	99.450	-.12632	-.23907	.02158	-.03353	4?5.93000	.00000	.00000	652.45000	216.27000	.00000
.018	149.140	.11114	-.01691	-.00716	-.09757	4?5.31000	.00000	.00000	651.48000	215.93000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2483/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.958	-49.197	.32341	2.00610	.02685	-.02694	4?7.08000	.00000	.00000	654.09000	216.82000	.00000
4.971	15.307	.08030	.17204	.02572	-.02220	4?6.22000	.00000	.00000	653.74000	216.70000	.00000
4.996	49.345	.08370	.28054	-.01317	-.07493	4?6.75000	.00000	.00000	653.69000	216.68000	.00000
5.011	99.112	.20153	-.12067	.02235	-.01571	4?7.51000	.00000	.00000	654.77000	217.04000	.00000
5.029	198.400	.26034	.05977	.02349	-.02542	4?7.37000	.00000	.00000	654.55000	216.97000	.00000
5.025	298.750	.23971	.52214	.00832	-.03345	4?9.76000	.00000	.00000	659.12000	218.15000	.00000
4.984	399.340	.23468	.20518	.01519	-.01730	4?0.01000	.00000	.00000	659.51000	218.28000	.00000
4.977	599.620	.25752	-.10678	.01662	-.01437	4?0.93000	.00000	.00000	659.89000	218.74000	.00000
	GRADIENT	.00587	.01124	.00175	-.00145	?8.53727	.00000	.00000	42.70856	14.15692	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(O4R(2) W/ET SEPARATING (UVK023) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2847/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.008	624.920	972.62000	972.62000	85.00000	972.6200(	972.41000	86.00000	76.00000	24.33400	99.76800
-19.956	698.630	973.09000	973.09000	85.00000	973.0900(	972.41000	86.00000	76.00000	26.53600	99.76800
-19.933	798.290	973.05000	973.05000	85.00000	973.0500(	972.41000	86.00000	76.00000	32.53100	99.76800
-20.050	999.550	973.50000	973.50000	85.00000	973.5000(	972.41000	86.00000	76.00000	34.41200	99.76800
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2851/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.005	474.550	976.14000	976.14000	84.00000	976.1400(	975.92000	85.00000	76.00000	24.75900	99.64200
-15.029	499.600	976.47000	976.47000	84.00000	976.4700(	975.92000	85.00000	76.00000	25.90700	99.64200
-14.982	548.880	976.46000	976.46000	84.00000	976.4600(	975.92000	85.00000	76.00000	25.58700	99.64200
-14.971	598.960	976.26000	976.25000	84.00000	976.2600(	975.92000	85.00000	76.00000	26.12200	99.64200
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2855/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.010	324.540	976.84000	976.84000	86.00000	976.8400(	976.62000	86.00000	77.00000	28.68200	99.76800
-10.030	349.650	976.81000	976.81000	86.00000	976.8100(	976.62000	86.00000	77.00000	25.33900	99.76800
-10.007	399.110	976.98000	976.98000	86.00000	976.9800(	976.62000	86.00000	77.00000	20.92400	99.76800
-9.982	448.910	977.08000	977.08000	86.00000	977.0800(	976.62000	86.00000	77.00000	20.43500	99.76800
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2859/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.511	199.460	977.41000	977.41000	86.00000	977.4100(	977.20000	86.00000	78.00000	22.42600	99.76800
-5.519	249.230	977.32000	977.32000	86.00000	977.3200(	977.20000	86.00000	78.00000	20.27800	99.76800
-5.497	298.930	977.51000	977.51000	86.00000	977.5100(	977.20000	86.00000	78.00000	17.71600	99.76800
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2480/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.007	19.477	976.26000	976.26000	75.00000	976.2600(	976.03999	76.00000	73.00000	-7.85760	99.89400
-.012	50.046	977.02000	977.02000	75.00000	977.0200(	976.03999	76.00000	73.00000	-5.22690	99.89400
.013	99.450	974.93000	974.93000	75.00000	974.9300(	976.03999	76.00000	73.00000	-5.10380	99.89400
.018	149.140	975.41000	975.41000	75.00000	975.4100(	976.03999	76.00000	73.00000	-6.48940	99.89400
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC2) W/ET SEPARATING (UVK023) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2483/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.958	-49.197	975.94000	975.94000	77.00000	975.94000	975.71999	79.00000	72.00000	-8.28480	99.89400
4.971	15.307	975.90000	975.90000	77.00000	975.90000	975.71999	79.00000	72.00000	-7.69640	99.89400
4.996	49.345	975.82000	975.82000	77.00000	975.82000	975.71999	79.00000	72.00000	-7.58340	99.89400
5.011	99.112	975.50000	975.50000	77.00000	975.50000	975.71999	79.00000	72.00000	-7.47830	99.89400
5.023	193.400	977.60000	977.60000	77.00000	977.60000	975.71999	79.00000	72.00000	-7.48330	99.89400
5.025	293.750	930.50000	930.50000	77.00000	930.50000	975.71999	79.00000	72.00000	-6.67760	99.89400
4.984	399.340	932.04000	932.04000	77.00000	932.04000	975.71999	79.00000	72.00000	-6.01930	99.89400
4.977	599.620	981.67000	981.67000	77.00000	981.67000	975.71999	79.00000	72.00000	-5.47330	99.89400
	GRADIENT	63.75514	63.75514	5.03038	63.75514	63.74338	3.16104	4.70373	-.50280	6.52603

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK023) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN.	XT	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YT	
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN.	ZT	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2847/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.008	624.920	.00861	.24638	-24.98600	2.98980	-.53620	-.03283	-.03881	-.00784	.00088	.11806
-19.956	698.630	-.16113	-.02405	-24.98000	2.97030	-.55627	-.01375	-.03810	-.00809	.00092	.13467
-19.933	798.290	-.27825	-.18325	-24.94200	2.96760	-.60534	.02626	-.03806	-.00819	.00100	.16478
-20.050	999.550	.04270	.08355	-25.04500	2.98870	-.53763	.00274	-.04041	-.00693	.00086	.15660
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2851/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.005	474.550	.08126	-.44575	-19.99200	2.98260	-.43345	-.02070	-.03864	-.00705	.00082	.11070
-15.029	499.600	.17532	-.82751	-20.02300	2.98220	-.40259	-.03627	-.03768	-.00795	.00065	.10800
-14.982	548.880	-.06708	.45907	-19.93000	2.97710	-.41203	-.02671	-.03705	-.00809	.00059	.11856
-14.971	593.960	.00451	-.05235	-19.93100	2.98900	-.43068	-.01075	-.03786	-.00753	.00058	.12668
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK023) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2855/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.010	324.540	.08176	-.03851	-14.99100	2.96780	-.33132	-.01440	-.03594	-.00872	.00055	.11270
-10.030	349.650	.12232	-.25603	-15.01600	2.96550	-.30618	-.02750	-.03755	-.00790	.00051	.10358
-10.007	399.110	.04560	-.66618	-15.00300	2.96200	-.29503	-.02917	-.03676	-.00823	.00039	.10519
-9.982	448.910	.11603	.09386	-14.98500	2.97170	-.30608	-.01807	-.03751	-.00757	.00036	.11131
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2859/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.511	199.460	.17515	-.30934	-10.48000	2.96540	-.25095	-.01165	-.03113	-.00994	.00039	.11060
-5.519	249.230	.19331	-.15872	-10.50000	2.96730	-.21536	-.02512	-.03470	-.00880	.00025	.09794
-5.497	298.930	.15264	.03476	-10.48700	2.97010	-.21388	-.02087	-.03566	-.00831	.00025	.09893
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2480/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.007	19.477	.11423	.09023	-4.97330	2.95760	-.10742	-.02558	-.03206	-.01036	.00058	.09028
-.012	50.046	.08580	-.35776	-4.98020	2.96610	-.12385	-.02551	-.03192	-.01020	.00048	.08633
.013	99.450	.12682	-.23907	-4.95930	2.96300	-.13484	-.01612	-.03510	-.00911	.00036	.09100
.018	149.140	.11114	-.01691	-4.95920	2.96390	-.13493	-.01072	-.03422	-.00870	.00045	.09183
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2483/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.958	-49.197	.32341	2.00610	-.03404	3.04060	-.02471	-.00875	-.03306	-.00825	.00048	.08588
4.971	15.307	.08580	.17204	-.01300	2.97130	-.05751	-.00630	-.02555	-.00920	.00026	.08518
4.996	49.345	.06370	.26894	.01653	2.97090	-.06349	-.00062	-.03201	-.00802	.00023	.08933
5.011	99.112	.20155	-.12067	.03129	2.96710	-.07153	.00897	-.03231	-.00783	.00030	.09371
5.029	198.400	.25894	.09977	.04270	2.97070	-.06921	.02231	-.03083	-.00848	.00023	.10259
5.025	298.750	.23971	.52214	.03352	2.97630	-.06555	.02974	-.02585	-.01079	.00013	.10741
4.984	399.340	.23468	.20518	-.00924	2.97160	-.03186	.01562	-.02475	-.01145	.00012	.09833
4.977	599.620	.25752	-.10678	-.01449	2.96310	-.00520	.00077	-.02742	-.01044	.00020	.08835
	GRADIENT	.00587	.01124	-.00085	.19411	-.00376	-.00041	-.00167	-.00060	.00002	.00556

V418-D9A (IA22),ORBITER(O)RC2) W/ET SEPARATING (RVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2848/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.027	625.510	200.07000	-.14492	-.00644	.45376	-.04306	-.11805	.02489	-.00219	-.00265	.27551
-20.071	700.620	200.39000	-.02011	-.00138	.34207	-.04026	-.11569	.02622	-.00245	-.01098	.27552
-20.005	799.550	200.04000	-.21004	-.00651	.28175	-.03167	-.11178	.02690	-.00396	-.01504	.27546
-19.941	998.830	199.69000	.22372	.00371	.18320	-.00788	-.11953	.02611	-.00469	-.00307	.27562
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2852/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-14.970	474.330	199.96000	.18415	-.00132	.43802	-.03956	-.11511	.02534	-.00333	-.00276	.27663
-15.015	499.930	200.19000	-.29338	-.00851	.36203	-.03287	-.11354	.02585	-.00245	-.00684	.27658
-15.034	550.120	200.27000	.10848	-.00200	.26955	-.03003	-.11560	.02650	-.00299	-.00963	.27632
-15.063	600.390	200.32000	-.37521	-.00587	.23556	-.02526	-.11502	.02709	-.00273	-.01458	.27673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-9.980	324.520	200.14000	-.16889	-.00379	.38825	-.02285	-.11572	.02290	-.00394	-.01906	.27593
-9.985	349.520	200.22000	-.82775	-.01466	.33953	-.02098	-.11495	.02319	-.00422	-.01427	.27653
-10.028	399.960	200.23000	-.06049	-.00245	.27221	-.01816	-.11214	.02453	-.00377	-.00926	.27632
-10.058	450.270	200.13000	-.12155	-.00229	.21861	-.01613	-.11326	.02524	-.00362	-.01367	.27598
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.511	199.930	200.17000	.08677	-.00200	.30460	-.00046	-.12317	.02471	-.00407	-.01266	.27616
-5.511	249.820	200.18000	-.00067	-.00197	.27257	-.00378	-.11942	.02426	-.00447	-.01187	.27588
-5.540	300.100	200.34000	-.47662	-.00839	.23963	-.00773	-.11789	.02418	-.00474	-.00935	.27619
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2481/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.003	19.824	200.12000	-.01753	-.01047	.23367	.02352	-.12697	.02495	-.00655	.01683	.27797
-.029	50.418	200.12000	.13543	.00087	.23331	.02425	-.13141	.02726	-.00548	.01004	.27811
-.024	100.370	200.07000	.17094	.00004	.24565	.01572	-.12937	.02714	-.00514	.00848	.27937
-.028	150.070	200.12000	.08042	.00058	.22472	.00491	-.12776	.02718	-.00468	.00429	.27868
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OVRC2) W/ET SEPARATING (RVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2484/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
5.010	-51.194	200.26000	-.00893	-.00633	.16862	.00609	-.12928	.02528	-.00597	.01919	.27932
4.972	14.941	200.11000	.25159	-.00055	.21050	.01709	-.12911	.02753	-.00534	.01002	.27928
4.979	50.174	200.10000	.14009	.00144	.22040	.01143	-.12700	.02658	-.00527	.00978	.27884
4.959	100.350	200.15000	.10220	-.00307	.20051	.00531	-.12718	.02763	-.00546	.00339	.27965
4.970	200.250	200.07000	.32139	-.00068	.19759	-.00163	-.12521	.02746	-.00560	.00746	.27717
4.980	300.080	200.18000	.22790	-.00701	.18147	-.00323	-.12683	.02814	-.00458	.00336	.27913
5.033	399.000	200.22000	.22263	.00020	.16371	-.00501	-.12426	.02829	-.00563	.00258	.28013
4.989	599.270	200.21000	.08770	-.00250	.15283	-.00264	-.12463	.02845	-.00575	.00371	.27975
	GRADIENT	13.39335	.01684	-.00004	.01409	.00114	-.00864	.00184	-.00036	.00067	.01869

V41B-D9A (IA22),ORBITER(OVRC2) W/ET SEPARATING (SVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2848/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.027	625.510	-5.01400	2.97324	-.00644	.12344	-.03311	.02852	-.03173	-.00087	.00311
-20.071	700.620	-5.01700	2.97168	-.00138	.01145	-.03030	.02032	-.02927	.00044	.00285
-20.005	799.550	-5.01200	2.97101	-.00651	-.04182	-.02171	.01625	-.02539	.00112	.00135
-19.941	899.830	-4.98400	2.97229	.00371	-.14748	.00208	.02823	-.03311	.00033	.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2852/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.970	474.330	-5.01200	2.97252	-.00132	.10962	-.03007	.02833	-.02928	-.00027	.00194
-15.015	499.930	-5.00900	2.97201	-.00551	.03249	-.02294	.02436	-.02751	.00016	.00284
-15.034	550.120	-5.00300	2.97140	-.00200	-.04102	-.02008	.02161	-.02936	.00077	.00230
-15.063	600.390	-5.00300	2.97077	-.00587	-.09347	-.01534	.01651	-.02892	.00140	.00256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(OMRC2) W/ET SEPARATING (SVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2856/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.990	324.520	-4.99850	2.97539	-.00379	.05938	-.01294	.01207	-.02977	-.00275	.00133
-9.985	349.520	-4.99850	2.97516	-.01466	.01131	-.01105	.01689	-.02891	-.00249	.00106
-10.028	399.950	-5.00000	2.97365	-.00245	-.05701	-.00824	.02191	-.02610	-.00115	.00151
-10.058	450.270	-5.00000	2.97279	-.00229	-.10187	-.00623	.01742	-.02741	-.00037	.00165
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2860/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.511	199.930	-4.99200	2.97390	-.00200	-.02558	.00949	.01859	-.03688	-.00103	.00123
-5.511	249.820	-4.99500	2.97427	-.00197	-.05736	.00616	.01935	-.03319	-.00147	.00092
-5.540	300.100	-4.99190	2.97429	-.00839	-.09142	.00221	.02189	-.03163	-.00155	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2481/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.003	19.824	-4.99355	2.97427	-.01047	-.09835	.03352	.04826	-.04019	-.00094	-.00122
-.029	50.418	-4.99387	2.97173	.00037	-.09531	.03125	.04146	-.04467	.00138	-.00016
-.024	100.370	-4.97004	2.97176	.00004	-.06875	.02573	.03995	-.04250	.00122	.00020
-.028	150.070	-4.99081	2.97152	.00058	-.10704	.01491	.03570	-.04106	.00131	.00044
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2484/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.010	-51.194	-4.92261	2.97383	-.00633	-.16546	.01615	.05081	-.04197	-.00077	-.00067
4.972	14.941	-4.97063	2.97155	-.00055	-.12449	.02718	.04173	-.04156	.00140	.00003
4.979	50.174	-4.97525	2.97246	.00144	-.11390	.02150	.04142	-.03963	.00051	.00000
4.959	100.360	-4.98173	2.97117	-.00307	-.13405	.01539	.03506	-.03974	.00153	-.00010
4.970	200.250	-4.98811	2.97129	-.00068	-.13863	.00845	.03910	-.03786	.00139	-.00024
4.980	300.080	-4.99313	2.97051	-.00701	-.15320	.00380	.03504	-.03936	.00204	.00079
5.033	399.000	-4.99280	2.97020	.00020	-.17064	.00506	.03423	-.03688	.00221	-.00026
4.989	553.270	-4.99110	2.97010	-.00250	-.18195	.00744	.03540	-.03714	.00234	-.00038
	GRADIENT	-.33268	.19989	-.00004	-.00833	.00182	.00279	-.00278	.00009	.00000

V41B-09A (IA22),ORBITER(O-RC2) W/ET SEPARATING (TWK024) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2848/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.027	625.510	200.07000	-.14492	.13162	-.02092	433.64000	.00000	.00000	649.27000	215.22000	.00000
-20.071	700.820	200.39000	-.02011	.04307	-.14364	434.22000	.00000	.00000	649.85000	215.41000	.00000
-20.005	799.550	200.04000	-.21004	.05100	-.08937	434.16000	.00000	.00000	649.76000	215.38000	.00000
-19.941	899.830	199.68000	.22372	.04316	-.07055	434.30000	.00000	.00000	649.97000	215.45000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2882/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.970	474.330	199.95000	.18415	.07248	-.08305	431.32000	.00000	.00000	645.51000	213.97000	.00000
-15.015	499.930	200.19000	-.29338	-.00448	-.20253	432.81000	.00000	.00000	647.73000	214.71000	.00000
-15.034	550.120	200.27000	.10848	.03825	-.12743	433.32000	.00000	.00000	648.58000	215.00000	.00000
-15.063	600.390	200.32000	-.37521	.05342	-.08019	432.67000	.00000	.00000	647.52000	214.64000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2886/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.990	324.520	200.14000	-.16589	-.00114	-.13485	431.93000	.00000	.00000	646.43000	214.28000	.00000
-9.935	349.520	200.22000	-.82775	-.00029	-.14738	432.39000	.00000	.00000	647.10000	214.50000	.00000
-10.028	399.960	200.23000	-.06049	.00074	-.14237	432.39000	.00000	.00000	647.10000	214.50000	.00000
-10.058	450.270	200.13000	-.12155	.05456	-.08997	431.42000	.00000	.00000	645.65000	214.02000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2880/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.511	199.930	200.17000	.06677	.02805	-.05281	433.64000	.00000	.00000	648.99000	215.13000	.00000
-5.511	249.820	200.18000	-.00087	.01385	-.10167	433.32000	.00000	.00000	648.50000	214.98000	.00000
-5.540	300.100	200.34000	-.47882	-.00394	-.13748	433.48000	.00000	.00000	648.73000	215.04000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2881/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.003	19.824	200.12000	-.01753	.02537	-.02349	436.07000	.00000	.00000	652.61000	216.33000	.00000
-.029	50.418	200.12000	.13543	.03030	-.03219	435.94000	.00000	.00000	652.42000	216.26000	.00000
-.024	100.370	200.07000	.17034	.02793	-.03330	435.57000	.00000	.00000	653.38000	216.58000	.00000
-.028	150.070	200.12000	.03042	.00273	-.07819	435.72000	.00000	.00000	652.10000	216.16000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (TVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2484/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.010	-51.194	200.26000	-.00893	.02052	-.01204	+38.79000	.00000	.00000	656.66000	217.67000	.00000
4.972	14.941	200.11000	.25159	.02338	-.02071	+39.97000	.00000	.00000	658.45000	218.26000	.00000
4.979	50.174	200.10000	.14009	.01039	-.02849	+39.07000	.00000	.00000	657.10000	217.81000	.00000
4.959	100.260	200.15000	.10820	.00350	-.03695	+39.40000	.00000	.00000	657.60000	217.98000	.00000
4.970	200.250	200.07000	.32139	.01020	-.01330	+38.98000	.00000	.00000	656.94000	217.76000	.00000
4.980	300.080	200.18000	.22790	-.00391	-.04542	+39.54000	.00000	.00000	657.81000	218.05000	.00000
5.033	399.000	200.22000	.22263	.01578	-.00692	+39.13000	.00000	.00000	657.19000	217.84000	.00000
4.989	599.270	200.21000	.08776	.01617	-.01097	+39.69000	.00000	.00000	658.03000	218.12000	.00000
	GRADIENT	13.39335	.01684	.00156	-.00139	29.44716	.00000	.00000	44.07001	14.60813	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (UVK024) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2848/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.027	625.510	974.49000	974.49000	84.00000	974.490)0	973.91000	85.00000	76.00000	26.66100	99.64200
-20.071	700.620	974.39000	974.39000	84.00000	974.390)0	973.91000	85.00000	76.00000	21.72900	99.64200
-20.005	799.550	974.26000	974.26000	84.00000	974.260)0	973.91000	85.00000	76.00000	17.34700	99.64200
-19.941	998.830	974.10000	974.10000	84.00000	974.100)0	973.91000	85.00000	76.00000	23.29900	99.64200
	GRADIENT	.00000	.00000	.00000	.000)0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2852/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.970	474.330	976.46000	976.46000	84.00000	976.460)0	976.45000	85.00000	77.00000	27.51700	99.76800
-15.015	499.930	976.48000	976.48000	84.00000	976.480)0	976.45000	85.00000	77.00000	27.92800	99.76800
-15.034	550.120	976.34000	976.34000	84.00000	976.340)0	976.45000	85.00000	77.00000	28.14300	99.76800
-15.063	600.390	976.64000	976.64000	84.00000	976.640)0	976.45000	85.00000	77.00000	27.75700	99.76800
	GRADIENT	.00000	.00000	.00000	.000)0	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04-C2) W/ET SEPARATING (UVK024) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2856/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.990	324.520	977.37000	977.37000	86.00000	977.370)0	976.99999	86.00000	77.00000	18.05800	99.76800
-9.985	349.520	977.44000	977.44000	86.00000	977.440)0	976.99999	86.00000	77.00000	19.61400	99.76800
-10.028	399.990	977.44000	977.44000	86.00000	977.440)0	976.99999	86.00000	77.00000	19.43500	99.76800
-10.058	450.270	977.16000	977.16000	86.00000	977.160)0	976.99999	86.00000	77.00000	19.31900	99.76800
	GRADIENT	.00000	.00000	.00000	.000)0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2860/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.511	199.930	977.41000	977.41000	86.00000	977.410)0	977.31000	87.00000	78.00000	10.08200	99.76800
-5.511	249.820	977.15000	977.15000	86.00000	977.150)0	977.31000	87.00000	78.00000	12.29600	99.76800
-5.540	300.100	977.51000	977.51000	86.00000	977.510)0	977.31000	87.00000	78.00000	15.07100	99.76800
	GRADIENT	.00000	.00000	.00000	.000)0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2481/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.003	19.824	975.65000	975.65000	76.00000	975.650)0	976.12000	77.00000	72.00000	-5.75170	99.89400
-.029	50.418	975.65000	975.65000	76.00000	975.650)0	976.12000	77.00000	72.00000	-6.41290	99.89400
-.024	100.370	976.30000	976.30000	76.00000	976.300)0	976.12000	77.00000	72.00000	-6.27350	99.89400
-.028	150.070	976.34000	976.34000	76.00000	976.340)0	976.12000	77.00000	72.00000	-6.53990	99.89400
	GRADIENT	.00000	.00000	.00000	.000)0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2484/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.010	-51.194	976.87000	976.87000	77.00000	976.870)0	979.66000	78.00000	72.00000	-7.63560	99.89400
4.972	14.941	977.52000	977.52000	77.00000	977.520)0	979.66000	78.00000	72.00000	-8.39970	99.89400
4.979	50.174	977.03000	977.03000	77.00000	977.030)0	979.66000	78.00000	72.00000	-7.61560	99.89400
4.959	100.360	977.78000	977.78000	77.00000	977.780)0	979.66000	78.00000	72.00000	-7.50680	99.89400
4.970	200.250	976.80000	976.80000	77.00000	976.800)0	979.66000	78.00000	72.00000	-5.54090	99.89400
4.980	300.080	978.09000	978.09000	77.00000	978.090)0	979.66000	78.00000	72.00000	-5.85210	99.89400
5.033	399.000	979.11000	979.11000	77.00000	979.110)0	979.66000	78.00000	72.00000	-5.84720	99.89400
4.989	599.270	979.66000	979.66000	77.00000	979.660)0	979.66000	78.00000	72.00000	-5.52740	99.89400
	GRADIENT	65.42935	65.42935	5.15360	65.429)5	65.59657	5.22053	4.81895	-.56219	6.68590

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC2) (AVK024) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2848/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.027	625.510	200.07000	-.14492	-25.04100	2.96580	-.52699	-.04630	-.03561	-.00817	.00086	.11305
-20.071	700.620	200.39000	-.02011	-25.06900	2.97030	-.53705	-.03913	-.03680	-.00860	.00095	.12186
-20.005	799.550	200.04000	-.21004	-25.01700	2.96450	-.57748	-.00465	-.03844	-.00798	.00113	.14376
-19.941	898.830	199.68000	.22372	-24.93500	2.97600	-.61874	.04834	-.03602	-.00922	.00134	.16945
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2852/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.970	474.330	199.96000	.18415	-19.98200	2.97120	-.43734	-.02597	-.03679	-.00792	.00112	.12311
-15.015	499.930	200.19000	-.29338	-20.02400	2.98340	-.40118	-.04781	-.03664	-.00791	.00063	.10622
-15.034	550.120	200.27000	.10948	-20.04300	2.98940	-.39775	-.04708	-.03679	-.00820	.00069	.11191
-15.063	600.390	200.32000	-.37521	-20.07100	2.98490	-.41151	-.03441	-.03730	-.00782	.00069	.11630
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2856/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.990	324.520	200.14000	-.16889	-14.98300	2.97160	-.34768	-.01343	-.03041	-.01123	.00086	.12678
-9.985	349.520	200.22000	-.82775	-14.99400	2.96050	-.31362	-.03060	-.03222	-.01009	.00059	.11302
-10.028	399.960	200.23000	-.05049	-15.02800	2.97120	-.28396	-.04567	-.03477	-.00913	.00041	.10135
-10.058	450.270	200.13000	-.12155	-15.05800	2.97050	-.29417	-.03687	-.03636	-.00830	.00044	.10480
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2860/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.511	199.930	200.17000	.08677	-10.49300	2.97190	-.23887	-.02718	-.03833	-.00950	.00033	.10930
-5.511	249.820	200.18000	-.00067	-10.49700	2.97230	-.22040	-.03230	-.03418	-.00965	.00033	.10065
-5.540	300.100	200.34000	-.47662	-10.53200	2.96590	-.20654	-.03570	-.03614	-.00886	.00032	.09687
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2481/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.003	19.824	200.12000	-.01753	-4.98550	2.98380	-.14967	-.03139	-.02252	-.01066	.00062	.09333
-.029	50.418	200.12000	.13543	-4.99180	2.97260	-.15229	-.03426	-.02603	-.01254	.00043	.09499
-.024	100.370	200.07000	.17094	-4.98400	2.97180	-.14289	-.02881	-.03241	-.01073	.00037	.09443
-.028	150.070	200.12000	.08042	-5.00900	2.97210	-.12591	-.02466	-.03516	-.00973	.00038	.09022
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPAR.TING FROM ORB (O4RC2) (AVK024) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2484/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.010	-51.194	200.26000	-.00893	.02719	2.96750	-.04533	-.01870	-.02290	-.00998	.00034	.08621
4.972	14.941	200.11000	.25159	.00147	2.97100	-.07100	-.01729	-.03042	-.00990	.00033	.08985
4.979	50.174	200.10000	.14009	.00335	2.97390	-.06935	-.01236	-.02932	-.01022	.00033	.06934
4.959	100.350	200.15000	.10220	-.02313	2.96310	-.06239	-.00568	-.03256	-.00842	.00027	.09009
4.970	200.250	200.07000	.32139	-.01861	2.97040	-.06756	.00640	-.03398	-.00796	.00026	.09519
4.980	300.080	200.18000	.22790	-.01293	2.95350	-.06772	.02070	-.03064	-.00841	.00023	.10130
5.033	399.000	200.22000	.22263	.03591	2.97040	-.06073	.02818	-.02431	-.01134	.00018	.10727
4.989	599.270	200.21000	.08776	-.00210	2.95760	-.00437	.00093	-.02729	-.01050	.00021	.08905
	GRADIENT	13.39335	.01684	.00010	.19885	-.00475	-.00116	-.00204	-.00066	.00002	.00593

V41B-D9A (IA22),ORBITER((4RC2) W/ET SEPARATING (RVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2849/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.043	625.460	400.21000	.16111	-.00008	.32708	-.04056	-.11502	.02644	-.00300	-.01449	.27547
-20.014	699.860	400.06000	-.06922	-.00270	.23498	-.02390	-.11465	.02705	-.00316	-.01457	.27656
-19.968	789.000	399.79000	.28250	-.00139	.19798	-.01027	-.11915	.02592	-.00455	-.00546	.27610
-20.015	999.800	400.08000	.02978	-.00374	.15444	-.00394	-.12060	.02659	-.00536	-.00139	.27621
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.041	475.180	400.17000	-.05907	-.00499	.32295	-.03281	-.11428	.02554	-.00306	-.01394	.27653
-15.053	500.080	400.20000	-.05208	-.00600	.26892	-.02466	-.11565	.02625	-.00357	-.00775	.27637
-15.017	549.550	400.12000	.30070	.00609	.21440	-.01920	-.11543	.02693	-.00311	-.01112	.27606
-14.999	599.370	400.05000	-.15802	-.00887	.19533	-.01325	-.11560	.02620	-.00462	-.00825	.27626
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER((4RC2) W/ET SEPARATING (RVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2857/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.053	325.570	400.09000	.04197	-.00688	.33952	-.01932	-.11580	.02345	-.00373	-.01359	.27655
-10.012	349.290	400.00000	-.01071	-.00273	.31211	-.02045	-.11467	.02334	-.00297	-.01164	.27617
-10.052	399.730	400.14000	.08708	-.00270	.23716	-.01787	-.11319	.02492	-.00366	-.01368	.27655
-10.010	449.230	400.06000	-.20823	-.00357	.19003	-.01384	-.11465	.02602	-.00413	-.01299	.27648
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2861/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.539	200.460	400.25000	-.09457	-.00871	.29265	.00220	-.12027	.02460	-.00535	-.01270	.27626
-5.489	248.920	400.12000	.08067	-.00288	.27991	-.00548	-.11715	.02354	-.00434	-.01110	.27556
-5.518	299.280	400.09000	.01299	-.00051	.24897	-.01297	-.11475	.02336	-.00380	-.01198	.27587
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2482/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.047	20.831	400.03000	.39332	.00185	.25993	.02853	-.13428	.02658	-.00598	.00864	.27831
.031	48.847	400.08000	-.04847	-.00500	.24548	.02392	-.13491	.02777	-.00521	.00371	.27800
.042	98.578	400.08000	-.00105	-.00176	.23970	.01119	-.13224	.02788	-.00468	.00335	.27778
.021	149.080	400.21000	.24616	.00292	.24753	.00165	-.12912	.02767	-.00487	.00323	.27927
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2485/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.989	-50.435	400.19000	.04297	-.00335	.23221	.02823	-.13266	.02582	-.00570	.01492	.27925
5.049	13.007	400.25000	.20946	.01226	.22171	.01843	-.13155	.02768	-.00520	.00581	.27928
5.009	48.865	400.12000	.01832	.00095	.21834	.00939	-.13039	.02770	-.00485	.00498	.27610
5.001	99.039	400.19000	.54314	.00254	.21371	.00183	-.12939	.02766	-.00457	.00256	.27880
5.026	198.540	400.23000	.02814	-.00737	.19437	-.00488	-.12279	.02730	-.00495	.00764	.27844
5.026	298.440	400.24000	-.18301	-.00313	.16861	-.00683	-.12370	.02747	-.00528	.00386	.27902
5.022	398.640	400.25000	-.18018	-.00403	.15845	-.00474	-.12447	.02765	-.00541	.00288	.27822
4.993	598.920	400.27000	.06348	.00282	.15159	-.00073	-.12446	.02333	-.00573	.00249	.27878
	GRADIENT	30.77189	.01610	.00094	.01705	.00142	-.01011	.00213	-.00040	.00045	.02147

V41B-D9A (IA22),ORBITER((4RC2) W/ET SEPARATING (SVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2849/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.043	625.460	-5.01800	2.97138	-.00008	-.00330	-.03061	.01678	-.02867	.00068	.00230
-20.014	699.860	-5.00700	2.97090	-.00270	-.09524	-.01395	.01659	-.02835	.00129	.00214
-19.968	799.000	-4.99500	2.97249	-.00139	-.13242	-.00031	.02582	-.03280	.00016	.00075
-20.015	999.800	-4.99200	2.97184	-.00374	-.17712	.00605	.03000	-.03394	.00073	-.00004
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.041	475.180	-5.01000	2.97229	-.00499	-.00523	-.02289	.01722	-.02824	-.00003	.00222
-15.053	500.080	-5.00600	2.97160	-.00500	-.05959	-.01477	.02335	-.02980	.00063	.00171
-15.017	549.660	-5.00400	2.97101	.00609	-.11498	-.00927	.02006	-.02934	.00124	.00217
-14.999	599.370	-4.99300	2.97127	-.00837	-.13391	-.00333	.02291	-.02955	.00112	.00066
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2857/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.053	325.570	-4.99300	2.97488	-.00688	.01078	-.00941	.01753	-.02988	-.00219	.00154
-10.012	349.290	-5.00000	2.97493	-.00273	-.01541	-.01055	.01946	-.02881	-.00228	.00230
-10.052	399.730	-5.00100	2.97320	-.00270	-.09134	-.00797	.01744	-.02733	-.00070	.00161
-10.010	449.230	-4.99900	2.97197	-.00367	-.13331	-.00395	.01809	-.02883	.00041	.00113
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2861/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.539	200.460	-4.97630	2.97401	-.00871	-.03709	.01213	.01851	-.03409	-.00112	-.00006
-5.489	248.920	-4.99770	2.97508	-.00288	-.05124	.00449	.02024	-.03060	-.00228	.00097
-5.518	299.280	-4.99350	2.97511	-.00051	-.08143	-.00302	.01929	-.02840	-.00240	.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2482/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.047	20.831	-4.95778	2.97265	.00185	-.07255	.03855	.04012	-.04739	.00065	-.00065
.031	48.847	-4.98257	2.97130	-.00500	-.08359	.03393	.03514	-.04813	.00188	.00012
.042	98.578	-4.97445	2.97086	-.00176	-.09213	.02119	.03476	-.04552	.00200	.00065
.021	149.080	-4.98277	2.97099	.00292	-.08437	.01165	.03465	-.04238	.00179	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O)RC2) W/ET SEPARATING (SVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2485/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.989	-50.435	-4.99050	2.97376	-.00338	-.10343	.03831	.04660	-.04520	-.00048	-.00033
5.049	13.007	-4.97083	2.97145	.01223	-.11377	.03084	.03767	-.04397	.00152	.00019
5.009	48.855	-4.97670	2.97135	.00093	-.11355	.02008	.03866	-.04268	.00158	.00052
5.001	99.039	-4.98431	2.97116	.00284	-.12076	.01191	.03422	-.04198	.00158	.00079
5.026	198.540	-4.99122	2.97087	-.00737	-.13333	.00501	.03871	-.03702	.00170	.00032
5.026	298.440	-4.99422	2.97043	-.00813	-.15915	.00299	.03470	-.03385	.00207	-.00005
5.022	398.840	-4.99089	2.97043	-.00403	-.17169	.00321	.03412	-.03320	.00211	-.00012
4.993	598.920	-4.99126	2.97018	.00332	-.16300	.00733	.03407	-.03728	.00232	-.00038
	GRADIENT	-.38202	.22845	.00094	-.00375	.00219	.00269	-.00337	.00012	.00001

V41B-D9A (IA22),ORBITER(O)RC2) W/ET SEPARATING (TVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2849/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.043	625.460	400.21000	.16111	.05250	-.15345	433.91000	.00000	.00000	649.39000	215.26000	.00000
-20.014	699.860	400.03000	-.08922	.05723	-.08297	433.70000	.00000	.00000	649.07000	215.15000	.00000
-19.958	799.000	399.78000	.20350	.04782	-.09003	433.54000	.00000	.00000	649.43000	215.27000	.00000
-20.015	999.800	400.08000	.02978	.05517	-.07703	435.47000	.00000	.00000	651.71000	216.03000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.041	475.180	400.17000	-.05907	-.01210	-.22855	432.34000	.00000	.00000	647.03000	214.48000	.00000
-15.053	500.080	400.20000	-.08200	.02803	-.10009	431.45000	.00000	.00000	645.71000	214.04000	.00000
-15.017	549.580	400.12000	.30070	.00753	-.05469	432.61000	.00000	.00000	647.43000	214.61000	.00000
-14.999	599.370	400.05000	-.19802	.05241	-.08195	432.42000	.00000	.00000	647.15000	214.52000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(OVRC2) W/ET SEPARATING (TVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2957/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.053	325.570	400.09000	.04197	.00783	-.10327	431.76000	.00000	.00000	646.17000	214.19000	.00000
-10.012	349.290	400.00000	-.01071	-.00645	-.13559	431.48000	.00000	.00000	645.75000	214.05000	.00000
-10.052	399.730	400.14000	.08708	.02178	-.09480	431.43000	.00000	.00000	645.68000	214.03000	.00000
-10.010	449.230	400.06000	-.20823	.03339	-.07361	431.24000	.00000	.00000	645.38000	213.93000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2861/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.539	200.460	400.25000	-.09457	.01818	-.04955	433.07000	.00000	.00000	648.13000	214.84000	.00000
-5.489	248.920	400.12000	.08067	-.00293	-.08231	434.93000	.00000	.00000	650.91000	215.76000	.00000
-5.518	299.280	400.09000	.01299	-.00197	-.07112	433.94000	.00000	.00000	649.43000	215.27000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2482/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.047	20.831	400.03000	.39832	.02579	-.03312	436.67000	.00000	.00000	653.52000	216.63000	.00000
.031	48.847	400.08000	-.04847	.02796	-.03528	436.14000	.00000	.00000	652.72000	216.36000	.00000
.042	98.578	400.08000	-.00105	.02924	-.04615	435.81000	.00000	.00000	652.23000	216.20000	.00000
.021	149.080	400.21000	.24616	.01481	-.06036	435.91000	.00000	.00000	652.38000	216.25000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2485/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.989	-50.435	400.19000	.04297	.01799	-.01161	439.52000	.00000	.00000	657.78000	218.04000	.00000
5.049	13.007	400.25000	.20946	.02251	-.02902	440.62000	.00000	.00000	659.42000	218.58000	.00000
5.009	48.865	400.12000	.01832	.01631	-.03512	439.84000	.00000	.00000	658.26000	218.20000	.00000
5.001	99.039	400.19000	.54314	.00537	-.05699	439.29000	.00000	.00000	657.44000	217.93000	.00000
5.026	198.540	400.28000	.02814	.01095	-.03135	431.05000	.00000	.00000	645.11000	213.84000	.00000
5.026	298.440	400.24000	-.18201	-.00443	-.04589	427.85000	.00000	.00000	640.31000	212.25000	.00000
5.022	398.640	400.26000	-.16018	.01829	-.01177	433.50000	.00000	.00000	648.77000	215.05000	.00000
4.993	598.980	400.27000	.06348	.01645	-.01019	438.13000	.00000	.00000	655.70000	217.35000	.00000
	GRADIENT	30.77189	.01610	.00173	-.00223	33.87561	.00000	.00000	50.69732	16.80480	.00000

V41B-D9A (IA22),ORBITER(ORC2) W/ET SEPARATING (UVK025) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2849/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.043	625.460	974.66000	974.66000	85.00000	974.66000	974.46999	85.00000	76.00000	33.38600	99.64200
-20.014	699.860	975.14000	975.14000	85.00000	975.14000	974.46999	85.00000	76.00000	33.07400	99.64200
-19.968	799.000	975.21000	975.21000	85.00000	975.21000	974.46999	85.00000	76.00000	28.03000	99.64200
-20.015	999.800	975.75000	975.75000	85.00000	975.75000	974.46999	85.00000	76.00000	16.49400	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.041	475.180	976.37000	976.37000	85.00000	976.37000	976.17999	85.00000	77.00000	26.98600	99.76800
-15.053	500.080	976.76000	976.76000	85.00000	976.76000	976.17999	85.00000	77.00000	27.70400	99.76800
-15.017	549.560	976.50000	976.50000	85.00000	976.50000	976.17999	85.00000	77.00000	26.84400	99.76800
-14.999	599.370	976.55000	976.55000	85.00000	976.55000	976.17999	85.00000	77.00000	23.45100	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2857/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.053	325.570	977.46000	977.46000	86.00000	977.46000	977.25999	86.00000	77.00000	17.08300	99.76800
-10.012	349.290	977.77000	977.77000	86.00000	977.77000	977.25999	86.00000	77.00000	17.58000	99.76800
-10.052	399.730	977.19000	977.19000	86.00000	977.19000	977.25999	86.00000	77.00000	18.52400	99.76800
-10.010	449.230	97 00	977.22000	86.00000	977.22000	977.25999	86.00000	77.00000	18.06400	99.76800
	GRADIENT	00	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2861/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.539	200.460	977.55000	977.55000	86.00000	977.55000	977.33999	87.00000	78.00000	5.45250	99.76800
-5.489	248.920	977.42000	977.42000	86.00000	977.42000	977.33999	87.00000	78.00000	4.32950	99.76800
-5.518	299.280	977.60000	977.60000	86.00000	977.60000	977.33999	87.00000	78.00000	7.05450	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2482/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.047	20.831	975.57000	975.57000	78.00000	975.57000	975.38999	78.00000	72.00000	-7.61110	99.89400
.031	48.847	975.34000	975.34000	78.00000	975.34000	975.38999	78.00000	72.00000	-9.39340	99.89400
.042	98.578	975.09000	975.09000	78.00000	975.09000	975.38999	78.00000	72.00000	-11.16300	99.89400
.021	149.090	975.32000	975.32000	78.00000	975.32000	975.38999	78.00000	72.00000	-12.16600	99.89400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(O4RC2) W/ET SEPARATING (UVK025) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2485/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.989	-50.435	978.53000	978.53000	77.00000	978.53000	978.31000	78.00000	72.00000	-8.55620	99.89400
5.049	13.007	977.55000	977.53000	77.00000	977.55000	978.31000	78.00000	72.00000	-11.05700	99.89400
5.009	48.855	976.81000	976.81000	77.00000	976.81000	978.31000	78.00000	72.00000	-12.38100	99.89400
5.001	99.039	976.55000	976.55000	77.00000	976.55000	978.31000	78.00000	72.00000	-13.11600	99.89400
5.026	198.540	976.36000	976.36000	77.00000	976.36000	978.31000	78.00000	72.00000	-10.95500	99.89400
5.026	289.440	977.14000	977.14000	77.00000	977.14000	978.31000	78.00000	72.00000	-8.97360	99.89400
5.022	398.640	977.11000	977.11000	77.00000	977.11000	978.31000	78.00000	72.00000	-7.37790	99.89400
4.993	598.980	977.37000	977.37000	77.00000	977.37000	978.31000	78.00000	72.00000	-6.46480	99.89400
	GRADIENT	75.15645	75.15645	5.91989	75.15645	75.21412	5.99677	5.53548	-.85008	7.68002

V41B-09A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK025) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2849/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
-20.043	625.460	400.21000	.16111	-25.06100	2.97110	-.51975	-.06215	-.03556	-.00816	.00078	.11422
-20.014	699.660	400.05000	-.06922	-25.02100	2.96970	-.51971	-.05792	-.03560	-.00853	.00100	.12032
-19.968	799.000	399.79000	.22250	-24.95300	2.971 0	-.55623	-.02773	-.03741	-.00804	.00102	.13156
-20.015	998.800	400.03000	.02978	-25.00700	2.998 0	-.62814	.03567	-.03708	-.00794	.00153	.17536
	GRADIENT	.00000	.00000	.00000	.0001 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2853/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
-15.041	475.180	400.17000	-.05997	-20.05100	2.9570	-.43828	-.03753	-.03619	-.00748	.00095	.11951
-15.053	500.080	400.20000	-.08208	-20.08200	2.9551 0	-.39307	-.06010	-.03704	-.00653	.00062	.10634
-15.017	549.600	400.12000	.30070	-20.02100	2.977 0	-.39454	-.05837	-.03505	-.00875	.00084	.10795
-14.999	599.370	400.05000	-.19302	-19.99700	2.9921 0	-.39764	-.05164	-.03570	-.00793	.00064	.11249
	GRADIENT	.00000	.00000	.00000	.0001 0	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC2) (AVK025) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.3900 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2857/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
-10.053	325.570	400.09000	.04197	-15.05100	2.968[illegible]0	-.35573	-.02829	-.03728	-.00848	.00080	.12262
-10.012	349.290	400.00000	-.01071	-15.01200	2.972[illegible]0	-.34538	-.02913	-.03309	-.00894	.00042	.11748
-10.052	399.730	400.14000	.03708	-15.05300	2.970[illegible]0	-.28729	-.05560	-.03542	-.00822	.00037	.09821
-10.010	449.230	400.08000	-.20823	-15.00900	2.968[illegible]0	-.28336	-.05308	-.03357	-.00915	.00047	.10134
	GRADIENT	.00000	.00000	.00000	.000[illegible]0	.00000	00000	.00000	.00000	.00000	.00000

RUN NO. 2861/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
-5.539	200.460	400.25000	-.09457	-10.51900	2.986[illegible]0	-.25857	-.03467	-.04374	-.00729	.00029	.11182
-5.489	248.920	400.12000	.08067	-10.47700	2.972[illegible]0	-.25201	-.03069	-.04170	-.00755	.00026	.10968
-5.518	299.280	400.09000	.01299	-10.51500	2.974[illegible]0	-.21875	-.04348	-.03756	-.00871	.00034	.09958
	GRADIENT	.00000	.00000	.00000	.000[illegible]0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2482/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
-.047	20.831	400.03000	.39932	-5.00500	2.974[illegible]0	-.16535	-.05141	-.03633	-.00929	.00078	.10239
.031	48.847	400.08000	-.04647	-4.93180	2.983[illegible]0	-.16208	-.04042	-.03535	-.00853	.00053	.10291
.042	98.578	400.08000	-.00105	-4.93250	2.983[illegible]0	-.15032	-.02747	-.03498	-.00912	.00022	.10191
.021	149.080	400.21000	.24816	-4.93200	2.973[illegible]0	-.15337	-.02409	-.03350	-.01065	.00029	.09876
	GRADIENT	.00000	.00000	.00000	.000[illegible]0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2485/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETA	CN	CLM	CY	CYN	CBL	CA
4.989	-50.435	400.19000	.04297	.02961	2.970[illegible]0	-.10074	-.03901	-.03958	-.00448	.00043	.10257
5.049	13.007	400.25000	.20946	.08045	2.993[illegible]0	-.09138	-.01948	-.03121	-.00989	.00019	.09810
5.009	48.835	400.12000	.01832	.03251	2.972[illegible]0	-.08053	-.01692	-.02803	-.01193	.00020	.09437
5.001	99.039	400.19000	.54314	.01629	2.973[illegible]0	-.08426	-.01930	-.03133	-.01136	.00033	.08977
5.026	198.540	400.28000	.02814	.03478	2.983[illegible]0	-.05033	-.00843	-.03395	-.00917	.00025	.09367
5.026	299.440	400.24000	-.16901	.03228	2.982[illegible]0	-.06474	.00818	-.03224	-.00795	.00030	.09599
5.022	398.640	400.26000	-.16018	.02681	2.983[illegible]0	-.03482	.02112	-.02817	-.00681	.00023	.10172
4.993	598.930	400.27000	.06343	.00134	2.972[illegible]0	-.01891	.00906	-.02521	-.01128	.00013	.09312
	GRADIENT	30.77189	.01610	.00619	.229[illegible]9	-.00703	-.00150	-.00240	-.00076	.00001	.00754

V41B-09A (IA22),ORBITER(O4RC2) W/ET SEPARATING (RVK02B) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.011	625.120	600.14000	-.33609	-.00803	.23024	-.02273	-.11499	.02710	-.00312	-.01190	.27629
-20.038	700.390	600.16000	.05587	-.00091	.20057	-.01183	-.11922	.02539	-.00461	-.00565	.27577
-20.006	759.530	600.05000	.16238	-.00057	.16021	-.00492	-.12001	.02643	-.00549	-.00165	.27605
-20.054	1000.500	600.31000	.03200	-.00433	.14819	-.00283	-.12076	.02659	-.00536	-.00053	.27621
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2854/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-14.999	474.550	600.11000	-.04732	-.00528	.24638	-.02174	-.11543	.02641	-.00353	-.00840	.27626
-15.005	499.920	600.18000	.25658	.00321	.22071	-.01959	-.11509	.02668	-.00312	-.01030	.27626
-15.027	549.890	600.32000	.29301	-.00067	.19392	-.01327	-.11520	.02677	-.00463	-.00805	.27613
-15.032	600.080	600.14000	.14444	-.00351	.17909	-.00809	-.11858	.02693	-.00490	-.00422	.27590
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2858/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.025	324.950	600.16000	-.22250	-.00714	.22261	-.01639	-.11242	.02456	-.00426	-.00990	.27580
-9.996	349.650	600.12000	.27158	.00447	.25918	-.01758	-.11309	.02493	-.00411	-.01151	.27593
-10.000	399.700	600.11000	-.18735	-.00504	.21205	-.01584	-.11359	.02583	-.00371	-.01299	.27653
-10.039	450.190	600.26000	-.16445	-.01312	.18317	-.01153	-.11436	.02611	-.00487	-.01180	.27650
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2862/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.557	200.500	600.15000	-.03418	-.00579	.29183	-.00310	-.11909	.02477	-.00573	-.00663	.27626
-5.515	249.920	600.19000	-.04376	-.00277	.27737	-.01355	-.11698	.02429	-.00379	-.00608	.27632
-5.518	299.940	600.13000	.16377	-.00291	.22726	-.01510	-.11756	.02462	-.00406	-.00943	.27626
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O+RC2) W/ET SEPARATING (SVK028) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.011	625.120	-5.00600	2.97093	-.00803	-.10049	-.01277	.01941	-.02855	.00131	.00219
-20.038	700.390	-4.99700	2.97251	-.00091	-.12971	-.00186	.02565	-.03280	.00010	.00070
-20.006	799.530	-4.99300	2.97197	-.00067	-.17038	.00504	.02964	-.03362	.00065	-.00019
-20.054	1000.500	-4.99100	2.97183	-.00433	-.18220	.00713	.03076	-.03437	.00081	-.00005
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2854/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.999	474.550	-5.00400	2.97158	-.00528	-.08289	-.01182	.02277	-.02938	.00073	.00175
-15.005	499.920	-5.00300	2.97119	.00521	-.10787	-.00969	.02080	-.02922	.00105	.00215
-15.027	549.890	-4.99800	2.97127	-.00067	-.13532	-.00335	.02312	-.02915	.00110	.00065
-15.032	600.080	-4.99500	2.97231	-.00351	-.15039	.00184	.02697	-.03287	.00024	.00038
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2858/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.025	324.950	-4.99300	2.97354	-.00714	-.04584	-.00709	.02119	-.02658	-.00105	.00101
-9.996	349.660	-5.00010	2.97323	.00447	-.07111	-.00766	.01966	-.02703	-.00075	.00117
-10.000	399.700	-5.00030	2.97244	-.00504	-.11702	-.00593	.01816	-.02768	-.00003	.00157
-10.039	450.190	-4.99300	2.97192	-.01312	-.14581	-.00162	.01934	-.02838	.00045	.00041
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2862/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.557	200.500	-4.98490	2.97379	-.00679	-.03864	.00685	.02465	-.03273	-.00100	-.00043
-5.515	249.920	-4.99560	2.97407	-.00277	-.05263	-.00361	.02516	-.03063	-.00144	.00151
-5.518	299.940	-4.99940	2.97371	-.00291	-.10297	-.00515	.02183	-.03125	-.00113	.00124
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D8A (IA22) ORBITER(04RC2) W/ET SEPARATING (TVK026) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.011	625.120	600.14000	-.33609	.05971	-.0157)	434.37000	.00000	.00000	650.07000	215.49000	.00000
-20.038	700.380	600.18000	.05897	.03551	-.0532)	434.39000	.00000	.00000	649.97000	215.45000	.00000
-20.006	799.530	600.05000	.18209	.04261	-.0524)	434.19000	.00000	.00000	649.60000	215.40000	.00000
-20.054	1000.500	600.31000	.03200	.04845	-.0003)	434.18000	.00000	.00000	649.78000	215.39000	.00000
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2854/ 0 RN/L = .69 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.999	474.550	600.11000	-.04732	.04885	-.1045)	432.48000	.00000	.00000	647.22000	214.54000	.00000
-15.005	499.920	600.16000	.20368	.03222	-.0016)	431.55000	.00000	.00000	645.63000	214.03000	.00000
-15.027	549.680	600.23000	.28301	.04575	-.0533)	432.42000	.00000	.00000	647.15000	214.52000	.00000
-15.032	600.080	600.14000	.14444	.03079	-.0002)	432.73000	.00000	.00000	647.62000	214.67000	.00000
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2858/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.025	324.950	600.16000	-.22250	-.00649	-.1555)	431.33000	.00000	.00000	645.60000	214.00000	.00000
-9.995	349.690	600.12000	.27158	-.00853	-.1553)	432.49000	.00000	.00000	647.25000	214.55000	.00000
-10.000	399.700	600.11000	-.18736	.04589	-.0328)	432.20000	.00000	.00000	646.82000	214.41000	.00000
-10.039	450.190	600.28000	-.18945	.04576	-.0307)	432.03000	.00000	.00000	646.64000	214.35000	.00000
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2862/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.557	200.500	600.15000	-.03418	.00776	-.0823)	434.03000	.00000	.00000	649.58000	215.31000	.00000
-5.515	249.820	600.19000	-.04376	-.01635	-.1150)	433.42000	.00000	.00000	648.65000	215.01000	.00000
-5.518	299.940	600.13000	.16377	-.00206	-.0937)	433.72000	.00000	.00000	649.10000	215.16000	.00000
	GRADIENT	.00000	.00000	.00000	.0000)	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC2) W/ET SEPARATING (UVK028) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.011	625.120	975.69000	975.69000	84.00000	975.69000	976.00999	85.00000	76.00000	2.93840	99.76800
-20.038	700.390	976.01000	976.01000	84.00000	976.01000	976.00999	85.00000	76.00000	3.43390	99.76800
-20.006	799.530	975.76000	975.76000	84.00000	975.76000	976.00999	85.00000	76.00000	5.52510	99.76800
-20.054	1000.500	976.21000	976.21000	84.00000	976.21000	976.00999	85.00000	76.00000	9.74270	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2854/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.999	474.550	976.69000	976.69000	85.00000	976.69000	976.59000	85.00000	77.00000	14.62100	99.64200
-15.005	499.920	976.97000	976.97000	85.00000	976.97000	976.59000	85.00000	77.00000	10.45500	99.64200
-15.027	549.890	976.55000	976.55000	85.00000	976.55000	976.59000	85.00000	77.00000	11.37500	99.64200
-15.032	600.080	976.78000	976.78000	85.00000	976.78000	976.59000	85.00000	77.00000	14.65000	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2858/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.025	324.950	977.07000	977.07000	86.00000	977.07000	977.03000	86.00000	78.00000	19.74000	99.76800
-9.996	349.650	977.19000	977.19000	86.00000	977.19000	977.03000	86.00000	78.00000	18.52400	99.76800
-10.000	399.700	977.49000	977.49000	86.00000	977.49000	977.03000	86.00000	78.00000	14.97900	99.76800
-10.039	450.190	977.22000	977.22000	86.00000	977.22000	977.03000	86.00000	78.00000	13.57100	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2862/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.557	200.500	977.31000	977.31000	86.00000	977.31000	977.38000	87.00000	78.00000	14.41600	99.76800
-5.515	249.920	977.38000	977.38000	86.00000	977.38000	977.38000	87.00000	78.00000	16.32100	99.76800
-5.518	299.940	977.56000	977.56000	86.00000	977.56000	977.38000	87.00000	78.00000	13.61900	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC2) (AVK026) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2850/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.011	625.120	600.14000	-.33509	-25.01700	2.9529(	-.52384	-.06844	-.03738	-.00704	.00083	.11853
-20.038	700.330	600.16000	.05587	-25.03500	2.9716(	-.52344	-.06339	-.03789	-.00728	.00112	.12741
-20.006	799.530	600.05000	.16288	-24.99800	2.9713(	-.53308	-.05208	-.03845	-.00677	.00122	.12293
-20.054	1000.500	600.31000	.03200	-25.04500	2.9675(	-.60496	.01438	-.03976	-.00687	.00144	.15536
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2854/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.999	474.550	600.11000	-.04732	-20.00300	2.9583(	-.43886	-.05165	-.03564	-.00839	.00065	.12553
-15.005	499.920	600.18000	.25658	-20.00800	2.9744(	-.41929	-.06118	-.03357	-.00825	.00076	.11480
-15.027	549.890	600.22000	.28301	-20.02600	2.9706(	-.39304	-.06726	-.03878	-.00606	.00067	.11199
-15.032	600.080	600.14000	.14444	-20.02700	2.9688(	-.40502	-.06684	-.03768	-.00693	.00075	.11741
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2858/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.025	324.950	600.16000	-.22250	-15.02300	2.9364(	-.35163	-.04415	-.04561	-.00850	.00055	.12045
-9.996	349.660	600.12000	.27158	-14.99300	2.9777(	-.35129	-.04118	-.04491	-.00846	.00041	.12121
-10.000	399.700	600.11000	-.18736	-15.00000	2.9574(	-.32309	-.05178	-.04393	-.00592	.00062	.11221
-10.039	450.190	600.26000	-.18445	-15.03700	2.9588(	-.29797	-.05952	-.04167	-.00546	.00059	.10677
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2862/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.557	200.500	600.15000	-.03418	-10.54200	2.9570(	-.26513	-.05060	-.04507	-.00649	.00046	.11218
-5.515	249.920	600.19000	-.04376	-10.51100	2.9713(	-.27416	-.03569	-.04454	-.00780	.00032	.11534
-5.518	299.940	600.13000	.16377	-10.51700	2.9703(	-.25323	-.04036	-.04575	-.00710	.00023	.10695
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2807/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNB	CLMR	CYF	CYNR	CBLR	CAR	HM
-20.010	625.000	.02493	-.00408	.00100	.46180	-.05213	.00024	-.00015	.00342	-.00259	.18747
-19.934	698.300	-.25390	.04291	.00691	.4[illegible]091	-.06481	.00064	.00012	.00538	-.00476	.18796
-19.980	798.830	-.12286	.23700	.00153	.3 673	-.06326	-.00163	.00006	.00227	-.00970	.18731
-20.012	999.520	.10572	.02381	.00220	.1[illegible]616	-.03761	-.00453	.00006	.00034	-.00561	.18752
	GRADIENT	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2811/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNB	CLMR	CYR	CYNR	CBLR	CAR	HM
-14.993	474.520	.02758	.17072	.00386	.4[illegible]922	-.05306	-.00159	-.00040	.00365	.00385	.18728
-15.018	499.440	.18652	.39492	.01081	.3[illegible]867	-.05908	-.00170	-.00037	.00370	.00097	.18777
-14.977	548.640	-.04252	.20231	.00555	.3[illegible]349	-.05539	-.00042	-.00043	.00269	-.00674	.18721
-14.979	593.930	-.11718	.65035	.01204	.2[illegible]215	-.05333	-.00108	-.00015	.00172	-.01267	.18735
-14.982	699.650	-.11631	.07054	.00588	.2[illegible]464	-.05338	-.00203	-.00013	-.00023	-.01750	.18742
-15.074	800.290	.31414	-.15435	-.00518	.1[illegible]137	-.03801	-.00417	.00019	.00010	-.01093	.18735
-15.065	999.980	.35453	.22835	.00400	.0[illegible]860	-.03404	-.00394	-.00001	.00022	-.00410	.18758
	GRADIENT	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2815/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNB	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.013	324.510	.09922	-.00490	-.01031	.3[illegible]825	-.03030	-.00334	.00002	.00267	-.00470	.18774
-10.032	349.600	.10604	.25353	.00486	.2[illegible]107	-.04071	-.00303	-.00011	.00188	-.00681	.18795
-9.997	399.010	.09611	.48811	.01069	.2[illegible]998	-.05218	-.00265	-.00024	.00171	-.00546	.18809
-9.986	448.890	.09395	.00571	.00273	.2[illegible]019	-.05491	-.00229	-.00024	.00113	-.01287	.18769
-9.988	499.070	-.02055	.39384	.00716	.1[illegible]916	-.05289	-.00150	-.00038	-.00013	-.01534	.18795
-9.994	599.090	.06242	.06190	.00514	.1[illegible]070	-.04063	-.00401	-.00006	.00099	-.01348	.18839
-10.068	700.100	.27859	-.06568	-.00332	.0[illegible]833	-.03421	-.00417	.00001	.00023	-.00466	.18839
-10.042	799.640	.19406	.36509	.00597	.0[illegible]218	-.03403	-.00421	.00002	.00022	-.00443	.18825
-10.015	999.220	.20136	.05014	.00269	.0[illegible]836	-.03405	-.00447	.00003	.00022	-.00429	.18858
	GRADIENT	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER:O4RC3) W/ET SEPARATING (RVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2819/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNF	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.510	199.500	.03591	.29992	.09704	.25549	-.02091	-.00430	-.00024	.00178	-.00621	.18825
-5.505	248.990	.21445	.30333	.00634	.20370	-.03139	-.00488	.00033	.00058	-.00932	.18832
-5.499	259.140	.02349	.23484	.00611	.17546	-.03576	-.00471	.00010	.00066	-.01001	.18839
-5.492	399.570	.15147	.23726	.00547	.14[illegible]	-.04017	-.00393	-.00008	.00061	-.01025	.18839
-5.487	499.930	.04710	-1.93390	-.02577	.10[illegible]	-.03755	-.00470	.00013	.00025	-.00770	.18837
-5.[illegible]62	599.780	.27173	.36843	.00375	.08537	-.03460	-.00440	.00001	.00025	-.00402	.18855
-5.[illegible]57	699.520	.24793	.05337	.00289	.09278	-.03334	-.00439	-.00001	.00022	-.00350	.18818
-5.512	799.140	.19336	-.14006	-.00003	.09205	-.03389	-.00435	-.00001	.00023	-.00389	.18862
-5.512	819.200	.31447	-.01844	.00164	.08886	-.03386	-.00440	.00001	.00022	-.00355	.18790
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNF	CLMR	CYR	CYNR	CBLR	CAR	HM
-.087	26.992	-.58344	.34976	.00644	.14599	-.02204	-.01288	.00015	.00060	.02383	.18[illegible]63
.002	41.588	.11249	.32772	.00683	.13347	-.01924	-.01358	.00035	.00077	.02188	.18750
.028	91.387	.10730	.61283	.01060	.17420	-.02204	-.01221	-.00006	.00016	.02283	.19[illegible]0
.014	141.310	.04617	.03425	.00182	.16053	-.02032	-.01307	.00018	.00024	.00981	.18777
.020	190.930	.10133	.00210	.00402	.14509	-.02[illegible]4	-.01341	.00051	.00047	.00840	.19052
.033	290.820	.15733	-.10497	-.00036	.14[illegible]22	-.03334	-.01205	.00040	.00054	.01438	.18023
.013	391.040	.16006	.14752	.00573	.12205	-.03716	-.01241	.00047	.00015	.01162	.18805
-.032	491.800	.09739	-.02603	-.00063	.10912	-.03658	-.01210	.00038	.00017	.01355	.18764
-.004	591.500	.21411	.19393	.00530	.09917	-.03357	-.01208	.00037	.00004	.01471	.18818
.001	791.370	.22057	-.11290	.00082	.09[illegible]36	-.03386	-.01205	.00035	.00005	.01477	.18940
.002	931.250	.17047	.21019	.00520	.09641	-.03368	-.01212	.00037	.00006	.01471	.18863
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2462/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNF	CLMR	CYR	CYNR	CBLR	CAR	HM
4.988	-57.915	.31991	-.50202	-.00513	.10196	-.03304	-.01110	-.00043	-.00035	.01553	.18898
4.986	6.890	.11153	-.18467	-.00121	.13002	-.02888	-.01251	.00016	.00045	.02502	.18870
4.993	41.385	.11935	.18340	.00319	.13[illegible]57	-.02701	-.01197	.00021	-.00012	.02008	.18859
5.005	91.239	.15858	-.03323	.00258	.13709	-.02023	-.01335	.00038	.00070	.00319	.18849
5.035	190.800	.15582	-.04885	.00076	.13[illegible]75	-.02[illegible]2	-.01[illegible]95	.00055	.00040	.01059	.18875
5.008	291.080	.17005	-.03378	.00322	.13019	-.03349	-.01225	.00036	.00058	.00283	.18849
4.977	391.560	.15845	.01745	.00076	.11767	-.03334	-.01182	.00047	.00011	.01018	.18813
4.998	591.340	.26077	-.24457	-.00176	.10153	-.03344	-.01114	.00053	-.00018	.01138	.18863
	GRADIENT	.01640	-.02716	-.00018	.01912	-.00439	-.00184	.00002	.00007	.00368	.02775

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2807/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.010	625.000	-5.02200	-.00149	.00100	.18587	-.01049	.03080	.00899	-.00031	.00368
-19.934	699.300	-5.03600	-.00198	.00891	.15482	-.02315	.02865	.00940	-.00004	.00565
-19.980	793.830	-5.03900	-.00187	.00153	.04040	-.02156	.02374	.00714	-.00011	.00253
-20.012	993.520	-5.02600	-.00152	.00320	-.16910	.00393	.02770	.00420	-.00010	.00060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2811/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.993	474.520	-5.02500	-.00120	.00366	.14435	-.01158	.03711	.00712	-.00056	.00391
-15.018	499.440	-5.03300	-.00132	.01081	.10376	-.01759	.03424	.00702	-.00053	.00396
-14.977	548.840	-5.04100	-.00139	.00855	.04837	-.02387	.02655	.00831	-.00059	.00295
-14.979	593.980	-5.04100	-.00165	.01204	-.00323	-.02177	.02065	.00766	-.00032	.00198
-14.982	693.680	-5.04200	-.00163	.00899	-.07042	-.01807	.01579	.00869	-.00029	.00003
-15.074	800.280	-5.03500	-.00167	-.00318	-.16453	.00582	.02245	.00458	.00003	.00036
-15.065	999.980	-5.02300	-.00141	.00400	-.16397	.00754	.02924	.00480	-.00017	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2815/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.013	324.5[illegible]0	-5.01600	-.00145	-.01031	.05820	.00336	.02894	.00548	-.00015	.00293
-10.032	349.6[illegible]0	-5.01900	-.00135	.00466	.01227	.00136	.02892	.00576	-.00028	.00214
-9.997	399.0[illegible]0	-5.03190	-.00139	.01059	-.01883	-.01009	.02830	.00619	-.00040	.00197
-9.986	448.6[illegible]0	-5.03050	-.00143	.00273	-.00868	-.01270	.02090	.00656	-.00040	.00139
-9.988	499.0[illegible]0	-5.03380	-.00128	.00716	-.10941	-.01085	.01837	.00733	-.00054	.00013
-9.994	599.09[illegible]	-5.02670	-.00143	.00514	-.14774	.00139	.02021	.00482	-.00022	.00125
-10.068	700.10[illegible]	-5.02300	-.00142	-.00332	-.18578	.00784	.02905	.00467	-.00016	.00050
-10.042	799.640	-5.02300	-.00144	.00397	-.18540	.00801	.02928	.00462	-.00014	.00048
-10.015	999.220	-5.02300	-.00143	.00269	-.18505	.00800	.02942	.00437	-.00014	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK027) (5) APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2819/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.510	199.500	-5.00500	-.00093	.00704	-.02379	.02124	.02759	.00455	-.00040	.00204
-5.505	248.990	-5.01520	-.00170	.00634	-.07551	.01074	.02447	.00397	.00016	.00084
-5.499	289.140	-5.02080	-.00152	.00511	-.09931	.00631	.02372	.00413	-.00006	.00093
-5.472	393.570	-5.02340	-.00140	.00347	-.13905	.00155	.02352	.00502	-.00024	.00087
-5.487	499.930	-5.02500	-.00159	-.02577	-.16927	.00456	.02606	.00415	-.00003	.00051
-5.562	599.780	-5.02330	-.00142	.00375	-.18392	.00755	.02977	.00446	-.00016	.00051
-5.527	699.520	-5.02250	-.00140	.00289	-.18531	.00818	.03027	.00446	-.00017	.00048
-5.512	799.140	-5.02320	-.00139	-.00003	-.18638	.00815	.03010	.00450	-.00018	.00049
-5.512	819.200	-5.02250	-.00141	.00164	-.18648	.00815	.03021	.00445	-.00016	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.087	26.992	-5.00945	-.00124	.00644	-.13271	.02000	.05754	-.00415	-.00001	.00086
.002	41.568	-5.00729	-.00141	.00663	-.13956	.02272	.05853	-.00476	.00019	.00103
.028	91.367	-5.00622	-.00102	.01060	-.10398	.01994	.05649	-.00339	-.00022	.00042
.014	141.310	-5.00740	-.00125	.00182	-.11764	.02146	.04347	-.00425	.00002	.00050
.020	190.500	-5.01209	-.00179	.00402	-.13234	.01620	.04203	-.00450	.00044	.00074
.033	290.020	-5.02007	-.00169	-.00036	-.13190	.00037	.04758	-.00365	.00024	.00081
.013	391.040	-5.02441	-.00181	.00373	-.15343	.00472	.04820	-.00361	.00030	.00041
-.032	491.800	-5.02376	-.00170	-.00063	-.16719	.00802	.04698	-.00334	.00022	.00043
-.004	591.500	-5.02230	-.00166	.00530	-.17721	.00814	.04815	-.00332	.00021	.00030
.001	791.370	-5.02242	-.00169	.00082	-.17698	.00807	.04823	-.00328	.00018	.00031
.002	931.250	-5.02238	-.00167	.00620	-.17737	.00809	.04820	-.00335	.00021	.00032
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2462/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.988	-57.915	-5.02122	-.00079	-.00513	-.18028	.00955	.04968	-.00215	-.00060	-.00008
4.986	6.800	-5.01708	-.00135	-.00121	-.15260	.01277	.05922	-.00355	-.00001	.00072
4.993	41.365	-5.01403	-.00139	.00319	-.14343	.01571	.05433	-.00299	.00005	.00015
5.005	91.269	-5.00799	-.00145	.00208	-.14636	.02255	.04248	-.00436	.00021	.00097
5.035	190.590	-5.01587	-.00185	.00076	-.14510	.01382	.04494	-.00395	.00048	.00067
5.008	291.050	-5.02185	-.00165	.00328	-.15389	.00738	.04421	-.00324	.00019	.00085
4.977	391.560	-5.02332	-.00180	.00076	-.16543	.00303	.04456	-.00281	.00031	.00038
4.998	591.340	-5.02135	-.00183	-.00176	-.18306	.00551	.04582	-.00212	.00036	.00009
	GRADIENT	-.73779	-.00020	-.00018	-.02244	.00188	.00871	-.00052	-.00000	.00011

V418-D8A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2807/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHD	CNF	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.010	625.000	.02493	-.00408	-.01849	-.11349	218.63000	.00000	.00000	645.80000	.00000	.00000
-19.934	689.300	-.28380	.04291	-.12148	-.28181	218.78000	.00000	.00000	646.19000	.00000	.00000
-19.980	798.830	-.12203	.23700	.04227	-.00074	218.94000	.00000	.00000	646.73000	.00000	.00000
-20.012	909.520	.10572	.02381	.04050	-.03117	218.10000	.00000	.00000	644.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2811/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHD	CNF	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.993	474.520	.02758	.17072	-.18330	-.42832	217.70000	.00000	.00000	643.31000	.00000	.00000
-15.018	499.440	.18022	.30492	-.18243	-.45123	217.83000	.00000	.00000	643.44000	.00000	.00000
-14.977	548.640	-.04282	.20281	.11832	-.04785	217.50000	.00000	.00000	643.91000	.00000	.00000
-14.979	593.930	-.11718	.60033	.44918	.41139	218.19000	.00000	.00000	644.52000	.00000	.00000
-14.982	603.930	-.11681	.07054	.12033	-.01143	217.94000	.00000	.00000	643.77000	.00000	.00000
-15.074	600.220	.31414	-.15437	.08005	-.03186	218.61000	.00000	.00000	645.75000	.00000	.00000
-15.065	599.930	.33453	.22035	.05774	-.05129	218.35000	.00000	.00000	644.97000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2815/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHD	CNF	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.013	324.510	.08822	-.68490	-.26328	-.61433	220.31000	.00000	.00000	650.78000	.00000	.00000
-10.032	349.600	.10804	.28353	.06301	-.10134	220.00000	.00000	.00000	652.53000	.00000	.00000
-9.937	393.010	.09311	.48911	.02085	-.14754	221.02000	.00000	.00000	652.83000	.00000	.00000
-9.926	448.690	.09535	.00571	.05311	-.00143	221.12000	.00000	.00000	653.17000	.00000	.00000
-9.909	499.070	-.02605	.39304	.01930	-.10123	220.72000	.00000	.00000	651.90000	.00000	.00000
-9.894	592.090	.02242	.06190	.04804	-.04137	220.61000	.00000	.00000	651.67000	.00000	.00000
-10.068	700.100	.27039	-.02038	.04509	-.02130	220.72000	.00000	.00000	652.07000	.00000	.00000
-10.042	799.640	.19406	.36309	.04014	-.02182	220.73000	.00000	.00000	652.02000	.00000	.00000
-10.015	999.220	.20136	.05014	.03424	-.01197	220.75000	.00000	.00000	652.08000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2819/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.510	199.500	.03591	.29992	.03810	-.04199	221.28000	.00000	.00000	653.65000	.00000	.00000
-5.506	248.990	.21446	.39553	.01312	-.10355	221.23000	.00000	.00000	653.48000	.00000	.00000
-5.499	299.140	.08649	.23484	.05094	-.00122	220.68000	.00000	.00000	652.46000	.00000	.00000
-5.472	398.570	.15147	.23728	.00576	-.07139	221.16000	.00000	.00000	653.26000	.00000	.00000
-5.487	498.950	.04710	-1.93390	.04222	.00131	221.07000	.00000	.00000	653.01000	.00000	.00000
-5.502	599.760	.27172	.33943	.03331	-.00102	221.29000	.00000	.00000	653.65000	.00000	.00000
-5.527	699.520	.24783	.05337	.02830	-.00129	221.13000	.00000	.00000	653.20000	.00000	.00000
-5.512	799.140	.19286	-.14006	.02322	.00192	221.25000	.00000	.00000	653.53000	.00000	.00000
-5.512	819.200	.31447	-.01844	.02365	.00894	221.09000	.00000	.00000	653.08000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.087	26.992	-.59344	.34976	-.01064	-.05158	220.76000	.00000	.00000	652.07000	.00000	.00000
.002	41.568	.11249	.32772	.04891	.01164	220.30000	.00000	.00000	650.73000	.00000	.00000
.028	91.367	.10730	.61233	.02735	-.02734	220.41000	.00000	.00000	651.05000	.00000	.00000
.014	141.310	.04617	.05425	.01347	-.04922	220.41000	.00000	.00000	651.06000	.00000	.00000
.020	190.990	.10133	.09210	.02807	-.03682	220.21000	.00000	.00000	650.49000	.00000	.00000
.033	280.820	.15753	-.18497	.00212	-.05184	220.05000	.00000	.00000	650.00000	.00000	.00000
.013	391.040	.18806	.14752	.00565	-.05142	219.93000	.00000	.00000	649.63000	.00000	.00000
-.032	491.800	.09739	-.02803	.02465	-.01769	218.93000	.00000	.00000	646.70000	.00000	.00000
-.004	591.500	.21411	.19033	.02170	-.01182	218.93000	.00000	.00000	646.83000	.00000	.00000
.001	791.370	.22057	-.11290	.01656	-.01092	219.11000	.00000	.00000	647.23000	.00000	.00000
.002	931.250	.17647	.21019	.01743	-.01178	219.30000	.00000	.00000	647.79000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2462/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.988	-57.915	.31991	-.50202	.01434	.00193	223.63000	.00000	.00000	660.57000	.00000	.00000
4.986	6.800	.11153	-.18467	.01370	-.00115	223.54000	.00000	.00000	661.49000	.00000	.00000
4.993	41.305	.11925	.12640	.01154	.00697	224.31000	.00000	.00000	662.68000	.00000	.00000
5.005	91.289	.15258	-.05323	.01890	-.01600	224.56000	.00000	.00000	663.41000	.00000	.00000
5.035	190.590	.19552	-.04635	.01755	-.01792	224.91000	.00000	.00000	664.35000	.00000	.00000
5.008	291.050	.17006	-.03978	-.00132	-.02005	225.09000	.00000	.00000	664.83000	.00000	.00000
4.977	391.560	.16645	.01745	.02070	.01473	225.11000	.00000	.00000	664.94000	.00000	.00000
4.998	591.340	.26077	-.24457	.01339	.00192	225.49000	.00000	.00000	666.07000	.00000	.00000
	GRADIENT	.01640	-.02716	.00201	-.00417	32.95187	.00000	.00000	97.27651	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (UVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2807/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.010	625.000	975.00000	975.00000	86.00000	975.00000	974.80000	89.00000	76.00000	18.98300	99.76800
-19.934	693.300	975.10000	975.10000	86.00000	975.10000	974.80000	89.00000	76.00000	24.93200	99.76800
-19.980	793.830	974.97000	974.97000	86.00000	974.97000	974.80000	89.00000	76.00000	36.79300	99.76800
-20.012	899.520	975.01000	975.01000	86.00000	975.01000	974.80000	89.00000	76.00000	29.81700	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2811/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.993	474.520	975.03000	975.03000	89.00000	975.03000	974.82999	89.00000	77.00000	30.42800	99.76800
-15.018	499.440	975.22000	975.22000	88.00000	975.22000	974.82999	89.00000	77.00000	28.48600	99.76800
-14.977	548.840	975.46000	975.46000	88.00000	975.46000	974.82999	89.00000	77.00000	27.75600	99.76800
-14.979	593.990	975.44000	975.44000	88.00000	975.44000	974.82999	89.00000	77.00000	32.29900	99.76800
-14.962	698.650	975.26000	975.26000	88.00000	975.26000	974.82999	89.00000	77.00000	31.70200	99.76800
-15.074	800.290	975.39000	975.39000	88.00000	975.39000	974.82999	89.00000	77.00000	26.64400	99.76800
-15.065	999.980	975.64000	975.64000	88.00000	975.64000	974.82999	89.00000	77.00000	19.60000	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2815/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.013	324.510	975.31000	975.31000	84.00000	975.31000	975.09000	86.00000	78.00000	26.99000	99.76800
-10.032	349.600	975.52000	975.52000	84.00000	975.52000	975.09000	86.00000	78.00000	26.50100	99.76800
-9.997	398.010	975.53000	975.53000	84.00000	975.53000	975.09000	86.00000	78.00000	24.09900	99.76800
-9.995	448.890	975.52000	975.52000	84.00000	975.52000	975.09000	86.00000	78.00000	21.72800	99.76800
-9.988	499.070	975.67000	975.67000	84.00000	975.67000	975.09000	86.00000	78.00000	17.85900	99.76800
-9.994	599.090	975.68000	975.68000	84.00000	975.68000	975.09000	86.00000	78.00000	12.73300	99.76800
-10.068	700.100	975.80000	975.80000	84.00000	975.80000	975.09000	86.00000	78.00000	9.32480	99.76800
-10.042	799.640	975.73000	975.73000	84.00000	975.73000	975.09000	86.00000	78.00000	6.99850	99.76800
-10.015	899.220	975.82000	975.82000	84.00000	975.82000	975.09000	86.00000	78.00000	4.60390	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORE ITER(04RC3) W/ET SEPARATING - (UVK027) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2819/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.510	193.500	976.23000	976.23000	83.00000	976.23000	976.00999	86.00000	78.00000	18.24600	99.76800
-5.506	248.930	976.47000	976.47000	83.00000	976.47000	976.00999	86.00000	78.00000	16.27000	99.76800
-5.499	269.140	976.38000	976.38000	83.00000	976.38000	976.00999	86.00000	78.00000	13.13900	99.76800
-5.472	383.570	976.17000	976.17000	83.00000	976.17000	976.00999	86.00000	78.00000	10.70200	99.76800
-5.487	488.950	976.24000	976.24000	83.00000	976.24000	976.00999	86.00000	78.00000	8.43370	99.76800
-5.562	559.720	976.22000	976.22000	83.00000	976.22000	976.00999	86.00000	78.00000	6.70780	99.76800
-5.527	609.520	976.08000	976.08000	83.00000	976.08000	976.00999	86.00000	78.00000	5.16170	99.76800
-5.512	799.140	976.03000	976.03000	83.00000	976.03000	976.00999	86.00000	78.00000	3.89790	99.76800
-5.512	819.200	975.97000	975.97000	83.00000	975.97000	976.00999	86.00000	78.00000	2.51590	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.087	26.992	972.92000	972.92000	82.00000	972.92000	972.70000	68.00000	73.00000	-7.48020	99.64200
.002	41.558	971.88000	971.88000	82.00000	971.88000	972.70000	68.00000	73.00000	-7.55280	99.64200
.028	91.357	972.33000	972.33000	82.00000	972.33000	972.70000	68.00000	73.00000	-5.90480	99.64200
.014	141.310	972.33000	972.33000	82.00000	972.33000	972.70000	68.00000	73.00000	-6.81700	99.64200
.020	190.980	974.41000	974.41000	82.00000	974.41000	972.70000	68.00000	73.00000	-7.57530	99.64200
.033	290.820	973.67000	973.67000	82.00000	973.67000	972.70000	68.00000	73.00000	-7.40280	99.64200
.013	391.040	972.83000	972.83000	82.00000	972.83000	972.70000	68.00000	73.00000	-6.27580	99.64200
-.032	491.800	972.03000	972.03000	82.00000	972.03000	972.70000	68.00000	73.00000	-4.00210	99.64200
-.004	591.500	971.64000	971.64000	82.00000	971.64000	972.70000	68.00000	73.00000	-3.21410	99.64200
.001	791.370	972.40000	972.40000	82.00000	972.40000	972.70000	68.00000	73.00000	-3.42520	99.64200
.002	931.250	972.76000	972.76000	82.00000	972.76000	972.70000	68.00000	73.00000	-3.53580	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2462/ 0 RN/L = .68 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.988	-57.915	972.43000	972.43000	81.00000	972.43000	972.23000	66.00000	74.00000	-6.04290	99.64200
4.988	6.800	972.31000	972.31000	81.00000	972.31000	972.23000	66.00000	74.00000	-6.81810	99.64200
4.993	41.335	972.45000	972.45000	81.00000	972.45000	972.23000	66.00000	74.00000	-7.08770	99.64200
5.005	91.233	972.20000	972.20000	81.00000	972.20000	972.23000	66.00000	74.00000	-9.08500	99.64200
5.035	190.530	972.10000	972.10000	81.00000	972.10000	972.23000	66.00000	74.00000	-10.39200	99.64200
5.008	291.050	971.80000	971.80000	81.00000	971.80000	972.23000	66.00000	74.00000	-9.16520	99.64200
4.977	391.560	971.93000	971.93000	81.00000	971.93000	972.23000	66.00000	74.00000	-7.34300	99.64200
4.998	591.340	971.67000	971.67000	81.00000	971.67000	972.23000	66.00000	74.00000	-6.07010	99.64200
	GRADIENT	142.98466	142.98466	11.91159	142.98465	142.97289	9.70574	10.82219	-1.00265	14.65302

V418-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK027) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2807/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	EETAT	CN	CLM	CY	CYN	CBL	CA
-20.010	625.000	.02493	-.00400	-25.03200	-.00049	-.54066	-.01838	.02490	-.00180	.00069	.12851
-19.934	698.300	-.25390	.04231	-24.97000	.00694	-.59543	.01660	.02822	-.00460	.00068	.16408
-19.990	798.830	-.12226	.23700	-25.01900	-.00034	-.53385	.02859	.02537	-.00336	.00099	.17782
-20.012	999.520	.10572	.02381	-25.03300	.00168	-.46518	-.03481	.01907	-.00022	.00032	.13249
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2811/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	EETAT	CN	CLM	CY	CYN	CBL	CA
-14.993	474.520	.02758	.17072	-20.01800	.00245	-.41076	-.02282	.01440	.00202	.00049	.10835
-15.018	499.440	.16662	.39492	-20.05100	.00949	-.38759	-.03302	.01611	.00071	.00042	.11579
-14.977	548.840	-.04252	.20281	-20.01800	.00517	-.40412	-.01660	.01803	-.00058	.00038	.12795
-14.979	598.930	-.11718	.65335	-20.02000	.01038	-.42391	-.00218	.01778	-.00100	.00034	.13938
-14.982	698.650	-.11831	.07054	-20.00400	.00425	-.44542	.02053	.01546	-.00267	.00068	.16444
-15.074	800.250	.31414	-.15435	-20.10000	-.00033	-.38300	-.01114	.01471	-.00015	.00033	.13693
-15.065	999.990	.35453	.22835	-20.09300	.00260	-.32739	-.04283	.01374	.00069	.00014	.12192
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2815/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	EETAT	CN	CLM	CY	CYN	CBL	CA
-10.013	324.510	.08322	-.03490	-15.02000	-.01176	-.31573	-.01263	.01267	.00071	.00027	.11437
-10.032	349.600	.10804	.25353	-15.05100	.00330	-.25319	-.02704	.01238	.00110	.00017	.10566
-9.997	398.010	.06311	.48311	-15.02500	.00931	-.28193	-.02610	.01335	.00036	.00014	.10983
-9.986	448.830	.09396	.00571	-15.02300	.00130	-.28419	-.01397	.01393	.00009	.00010	.11744
-9.998	499.070	-.02055	.39364	-15.02500	.00587	-.30752	-.00141	.01377	-.00023	.00013	.12733
-9.994	599.090	.06242	.06190	-15.02100	.00371	-.31006	.01009	.01479	-.00156	.00035	.14335
-10.068	700.100	.27839	-.06358	-15.09100	-.00524	-.25260	-.02196	.01083	.00086	-.00002	.11478
-10.042	799.640	.19406	.38509	-15.06500	.00553	-.22027	-.03979	.01080	.00121	-.00002	.10763
-10.015	899.220	.20136	.05014	-15.03900	.00126	-.22089	-.03891	.01011	.00135	-.00002	.11017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2819/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.510	199.500	.03591	.29992	-10.51300	.00611	-.23081	-.01255	.01190	.00004	.00011	.11090
-5.506	248.990	.21446	.39853	-10.52100	.00465	-.20211	-.02093	.01021	.00100	-.00003	.10187
-5.499	299.140	.08349	.23484	-10.52000	.00350	-.20081	-.01791	.01053	.00077	-.00002	.10230
-5.472	383.570	.15147	.23726	-10.49300	.00507	-.21469	-.00037	.01138	-.00010	-.00006	.11587
-5.487	498.950	.04710	-1.93080	-10.51200	-.02736	-.20536	.00558	.01226	-.00077	.00014	.12648
-5.592	599.730	.27173	.39943	-10.50300	.00233	-.15029	-.02189	.00880	.00111	-.00016	.10255
-5.527	699.520	.24793	.05337	-10.55000	.00159	-.14130	-.03157	.00850	.00127	-.00019	.10087
-5.512	799.140	.19033	-.14006	-10.53500	-.00142	-.14029	-.03166	.00890	.00134	-.00021	.10196
-5.512	819.200	.31447	-.01644	-10.53400	.00022	-.14057	-.03162	.00841	00137	-.00020	.10196
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.087	26.922	-.59344	.34976	-5.09390	.00520	-.11319	-.02240	.00604	.00043	.00029	.08971
.002	41.569	.11249	.32772	-5.00490	.00522	-.11448	-.02102	.00632	.00038	.00022	.09035
.028	91.367	.10730	.61223	-4.93050	.00559	-.11657	-.01629	.00510	.00041	.00007	.09046
.014	141.310	.04617	.05425	-4.93330	.00057	-.11917	-.00833	.00429	.00095	.00013	.09184
.020	190.980	.10133	.08210	-4.93240	.00223	-.11754	-.00204	.00590	.00041	.00006	.09591
.033	290.820	.15753	-.18497	-4.98710	-.00204	-.12005	.00847	.00539	.00013	.00006	.10291
.013	391.040	.16506	.14752	-5.01140	.00392	-.10223	.00906	.00758	-.00058	.00018	.10815
-.032	491.800	.09739	-.02803	-5.05590	-.00233	-.08825	-.01239	.00533	.00073	-.00002	.08945
-.004	591.500	.21411	.19093	-5.02840	.00354	-.08261	-.01565	.00463	.00081	-.00006	.08999
.001	791.370	.22057	-.11290	-5.02150	-.00083	-.08202	-.01525	.00511	.00072	-.00007	.09367
.002	931.250	.17647	.21019	-5.02050	.00353	-.06346	-.01533	.00485	.00076	-.00007	.09439
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2462/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.998	-57.915	.31991	-.50202	-.03312	-.00393	-.02350	-.00861	.00733	-.00016	.00005	.08491
4.996	6.600	.11153	-.18467	-.03008	-.00256	-.04446	-.00388	.00597	.00041	.00006	.08627
4.993	41.355	.11985	.12040	-.02803	.00181	-.05037	.00129	.00529	.00051	.00006	.08757
5.005	91.209	.18238	-.03323	-.00278	.00063	-.05707	.01012	.00462	.00039	.00001	.09385
5.035	190.590	.19362	-.04635	.01933	-.00111	-.05419	.02065	.00500	.00055	.00005	.10091
5.008	291.050	.17006	-.03978	-.01305	.00163	-.05319	.01793	.00542	-.00022	-.00002	.10032
4.977	391.580	.16545	.01745	-.01982	-.00104	-.05237	.00177	.00502	.00034	-.00007	.08564
4.998	591.340	.26077	-.24457	-.02325	-.00359	-.06635	.00099	.00494	.00043	-.00008	.08865
	GRADIENT	.01640	-.02716	-.00454	-.00038	-.00654	-.00057	.00086	.00006	.00001	.01269

V418-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK028) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.6000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2808/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.030	625.520	200.13000	-.25350	-.00127	.39784	-.07994	.00056	-.00057	.00335	-.00707	.18787
-20.065	700.490	200.31000	-.04044	-.00085	.38614	-.07581	-.00053	-.00030	.00193	-.01899	.18794
-19.978	799.580	200.05000	.09449	.00490	.33289	-.06440	.00106	-.00029	.00012	-.01874	.18780
-19.970	959.210	199.89000	.02728	.00320	.38059	-.03455	-.00436	.00002	.00019	-.00318	.18757
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2812/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-14.983	474.200	199.92000	-.02293	.00280	.37888	-.07790	-.00067	-.00046	.00189	-.00810	.18798
-15.028	500.050	200.13000	-.80947	-.01173	.38257	-.06703	-.00051	-.00044	.00179	-.01060	.18763
-15.031	549.990	200.20000	.15537	.00274	.30850	-.06243	.00010	-.00049	.00140	-.01708	.18932
-15.056	600.210	200.47000	-.28194	-.00207	.17728	-.05004	-.00245	-.00019	.00170	-.01921	.18784
-15.041	700.370	200.33000	.06333	-.00030	.14196	-.04108	-.00353	.00005	.00040	-.01344	.18756
-14.908	793.420	199.83000	.05403	.00793	.10433	-.03714	-.00407	.00005	.00032	-.00505	.18770
-15.010	939.470	200.03000	.19155	.00476	.09012	-.03338	-.00406	-.00003	.00022	-.00379	.18770
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2816/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-9.936	324.120	200.05000	.36611	.01455	.34807	-.06371	-.00237	-.00024	.00224	-.00853	.18830
-9.998	349.640	200.18000	.08492	.00212	.37608	-.06517	-.00173	-.00036	.00081	-.00541	.18851
-10.032	399.940	200.23000	.05107	.00234	.35884	-.04038	-.00330	-.00024	.00078	-.00933	.18797
-10.028	449.800	200.23000	-.27439	-.00886	.34750	-.04639	-.00324	-.00002	.00069	-.01276	.18804
-10.057	500.390	200.23000	.40592	.00745	.31818	-.04010	-.00404	-.00000	.00040	-.01329	.18339
-10.021	599.910	200.27000	-.02463	-.00031	.30383	-.03550	-.00433	.00004	.00024	-.00618	.18809
-9.990	699.830	200.03000	.45825	.01282	.29235	-.03406	-.00428	.00000	.00022	-.00421	.18827
-9.997	799.320	200.17000	.26237	.00573	.29230	-.03405	-.00430	-.00001	.00022	-.00429	.18783
-10.014	999.370	200.24000	.47615	.00836	.29241	-.03405	-.00426	.00002	.00022	-.00436	.18790
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-09A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK028) : 20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UNDLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2820/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-5.491	193.550	200.15000	-.03425	.00208	.18287	-.00007	-.00451	.00038	.00143	-.01204	.18939
-5.513	249.000	200.00000	.03109	.01402	.[illegible]231	-.03574	-.00457	.00013	.00032	-.00961	.18905
-5.543	308.200	200.03000	.23010	.00130	.17200	-.00074	-.00332	-.00007	.00033	-.00845	.18825
-5.531	400.210	200.00000	.44015	.00150	.1716	-.00[illegible]	-.00418	-.00702	.00043	-.00873	.18831
-5.518	493.740	200.21000	.70419	.01285	.[illegible]491	-.00[illegible]	-.00453	.00007	.00033	-.00203	.18816
-5.487	593.630	200.10000	-.30033	-.00023	.[illegible]285	-.00[illegible]	-.00418	-.00002	.00022	-.00331	.18823
-5.499	693.730	200.15000	-.22542	-.00007	.[illegible]205	-.00384	-.00423	-.00001	.00022	-.00345	.18874
-5.510	793.330	200.21000	-.42007	-.00406	.[illegible]212	-.00330	-.00430	-.00002	.00022	-.00334	.18844
-5.512	819.320	200.17000	.05505	.00004	.[illegible]218	-.00333	-.00436	-.00001	.00022	-.00357	.18885
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2460/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-.004	23.701	200.05000	.25332	.00946	.[illegible]824	-.01235	-.01202	-.00031	.00035	.02097	.18972
-.023	42.372	200.12000	-.05170	.00334	.[illegible]205	-.01273	-.01187	-.00013	.00022	.01714	.18939
-.014	92.109	200.10000	-.00000	.00125	.[illegible]207	-.01631	-.01319	.00015	.00009	.01286	.18903
-.021	142.000	200.22000	-.21009	-.00005	.[illegible]5720	-.02[illegible]	-.01321	.00039	.00047	.00005	.18835
-.037	192.[illegible]60	200.14000	.1[illegible]04	.00178	.[illegible]4218	-.02[illegible]	-.01233	.00035	.00014	.00341	.18832
-.021	242.000	200.11000	.00037	.00041	.[illegible]3200	-.01[illegible]	-.01193	.00031	.00049	.01223	.18830
.003	291.600	200.18000	.31271	.00035	.[illegible]1024	-.03[illegible]	-.01203	.00016	.00016	.01203	.18823
.031	491.210	200.22000	.10314	.00004	.[illegible]0709	-.03[illegible]	-.01220	.00020	.00014	.01440	.18836
.000	591.420	200.20000	.17373	.00005	.[illegible]0028	-.03[illegible]	-.01195	.00028	.00006	.01402	.18830
-.002	791.460	200.22000	.17514	.00456	.[illegible]0308	-.03331	-.01199	.00037	.00006	.01472	.18846
-.001	931.350	200.21000	.12805	.00435	.[illegible]8020	-.03305	-.01216	.00037	.00006	.01474	.18863
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2463/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
4.992	-58.681	200.19000	.15443	.00705	.2186	-.02424	-.01233	.00013	.00125	.01917	.18773
4.982	6.769	200.11000	-.05242	.00201	.[illegible]5492	-.01604	-.01235	.00039	.00088	.01216	.18752
4.984	42.187	200.03000	.16724	.00408	.5104	-.01765	-.01303	.00027	.00060	.00747	.18808
4.987	92.389	200.14000	-.03227	.00119	.[illegible]4210	-.02610	-.01357	.00064	.00074	.00651	.18817
4.975	192.120	200.14000	-.03031	.00003	.[illegible]4713	-.03314	-.01115	.00100	-.00007	.01273	.18824
5.004	291.610	200.22000	-.15005	-.00000	.[illegible]2377	-.03704	-.01058	.00095	-.00001	.00803	.18815
5.023	391.210	200.22000	.01637	.00337	.[illegible]0103	-.03374	-.01003	.00104	-.00058	.00904	.18741
5.001	591.220	200.11000	-.13547	.00083	.[illegible]8553	-.03042	-.01064	.00104	-.00034	.01000	.18824
	GRADIENT	29.47935	-.00772	.00044	.[illegible]2281	-.00248	-.00169	.00006	.00013	.00179	.02763

V41B-D8A (IA22),ORB:TER(04RC3) W/ET SEPARATING (SVK028) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2808/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.030	625.520	-5.03100	-.00142	-.00127	.12259	-.03040	.02624	.00329	-.00073	.00361
-20.065	700.490	-5.05200	-.00167	-.00085	.01083	-.03426	.01433	.00829	-.00046	.00219
-19.978	789.580	-5.04500	-.00157	.00490	-.04243	-.02283	.01458	.00979	-.00045	.00038
-19.970	889.210	-5.02400	-.00144	.00320	-.16420	.00889	.03012	.00436	-.00014	.00044
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2812/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.983	474.200	-5.03000	-.00150	.00200	.10161	-.03006	.02545	.00813	-.00062	.00215
-15.028	500.060	-5.04400	-.00140	-.01173	.00321	-.03318	.02205	.00828	-.00081	.00205
-15.031	549.690	-5.04400	-.00131	.00274	-.05305	-.02054	.01650	.00890	-.00065	.00166
-15.056	600.210	-5.03200	-.00153	-.00307	-.10011	-.01403	.01435	.00634	-.00035	.00196
-15.041	700.370	-5.03100	-.00135	-.00030	-.13405	.00028	.01955	.00522	-.00012	.00036
-14.908	750.420	-5.03200	-.00151	.00733	-.17120	.00944	.02729	.00467	-.00012	.00058
-15.010	800.470	-5.03200	-.00139	.00476	-.18093	.00759	.02033	.00470	-.00020	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2816/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.986	324.120	-5.03740	-.00152	.01455	.02030	-.02158	.02825	.00548	-.00040	.00250
-9.988	349.640	-5.03400	-.00130	.00212	-.00242	-.01314	.02029	.00710	-.00057	.00108
-10.032	399.640	-5.03100	-.00135	.00204	-.00820	-.00716	.02355	.00306	-.00041	.00104
-10.028	449.620	-5.03100	-.00153	-.00385	-.13181	-.00234	.02103	.00492	-.00019	.00095
-10.057	500.320	-5.03700	-.00148	.00745	-.16101	.00284	.02650	.00481	-.00017	.00086
-10.021	599.910	-5.02400	-.00148	-.00031	-.17857	.00303	.02760	.00453	-.00013	.00050
-9.980	699.820	-5.02330	-.00141	.01202	-.18183	.00203	.02354	.00457	-.00016	.00048
-9.997	799.320	-5.02310	-.00140	.00673	-.18006	.00008	.02049	.00455	-.00017	.00048
-10.014	899.370	-5.02200	-.00143	.00206	-.18351	.00304	.02540	.00459	-.00015	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D8A (IA22),ORB TER(04RC3) W/ET SEPARATING (SVK028) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1099.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UNSLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2820/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.491	193.560	-5.01820	-.00182	.00259	-.02535	.00612	.02083	.00431	.00021	.00169
-5.513	249.800	-5.01720	-.00152	.01432	-.09868	.00339	.02417	.00429	-.00004	.00068
-5.545	330.250	-5.01720	-.00139	.00450	-.10057	.00592	.02735	.00324	-.00023	.00030
-5.501	403.210	-5.01720	-.00143	.00330	-.16177	.00403	.03408	.00467	-.00018	.00039
-5.516	463.740	-5.01720	-.00151	.01845	-.17073	.00245	.03726	.00430	-.00010	.00049
-5.487	533.270	-5.01810	-.00139	-.00023	-.18730	.00312	.03843	.00405	-.00019	.00048
-5.489	600.320	-5.01720	-.00139	-.00097	-.18731	.00314	.03859	.00481	-.00018	.00048
-5.510	793.350	-5.01830	-.00139	-.00405	-.18318	.00509	.03834	.00452	-.00018	.00048
-5.512	819.320	-5.01830	-.00140	.00254	-.18305	.00507	.03812	.00456	-.00017	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2460/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.004	23.701	-4.99830	-.00080	.00446	-.08854	.00837	.03425	-.00380	-.00047	.00061
-.023	42.372	-4.99837	-.00091	.00834	-.01044	.00878	.00043	-.00315	-.00030	.00048
-.014	82.189	-5.00245	-.00114	.00125	-.08084	.06533	.04834	-.00443	-.00002	.00125
-.021	142.000	-5.01135	-.00175	-.00006	-.11774	.01700	.04158	-.00447	.00042	.00073
-.037	192.450	-5.01333	-.00184	.00178	-.13322	.01535	.03075	-.00484	.00049	.00040
-.021	233.250	-5.00922	-.00162	.00041	-.13059	.00335	.04032	-.00324	.00015	.00074
.003	331.600	-5.00203	-.00181	.00516	-.18002	.00428	.04583	-.00305	.00030	.00042
.031	481.210	-5.00824	-.00183	.00004	-.17009	.00703	.04777	-.00345	.00022	.00040
.000	581.430	-5.00244	-.00168	.00335	-.17023	.00201	.04020	-.00322	.00022	.00032
-.002	781.460	-5.02241	-.00166	.00493	-.17683	.00303	.04812	-.00324	.00020	.00032
-.001	931.350	-5.02244	-.00167	.00435	-.17747	.00206	.04819	-.00339	.00021	.00032
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2463/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.982	-50.621	-5.01823	-.00123	.00703	-.13007	.01073	.03883	-.00480	-.00003	.00152
4.982	6.783	-5.01410	-.00142	.00301	-.13002	.02315	.04033	-.00382	.00022	.00115
4.984	42.187	-5.00494	-.00130	.00408	-.13371	.02533	.04193	-.00400	.00010	.00087
4.987	82.358	-5.01207	-.00179	.00119	-.14245	.01764	.04094	-.00455	.00047	.00101
4.975	182.120	-5.01837	-.00232	.00383	-.13737	.00279	.04715	-.00213	.00033	.00020
5.004	281.610	-5.02350	-.00273	-.00000	-.16073	.00203	.04245	-.00155	.00078	.00025
5.023	381.210	-5.02333	-.00241	.00307	-.17516	.00723	.04330	-.00160	.00087	.00001
5.001	581.230	-5.02132	-.00239	.00033	-.19495	.00238	.04447	-.00180	.00087	-.00007
	GRADIENT	-.73720	-.00021	.00044	-.01915	.00385	.00037	-.00056	.00003	.00017

V41B-D9A (IA22),ORBITER(O4RC3) W/ET SEPARATING (TVK028) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	...000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2808/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.030	625.520	200.13000	-.25350	.31071	.28148	218.08000	.00000	.00000	644.21000	.00000	.00000
-20.065	700.490	200.31000	-.04044	.18167	.15534	218.14000	00000	.00000	644.36000	.00000	.00000
-19.978	799.660	200.05000	.02449	.03016	-.07603	218.15000	.00000	.00000	644.32000	.00000	.00000
-19.970	999.210	199.80000	.02728	.04476	-.04146	218.04000	.00000	.00000	644.07000	.00000	.00000
	GRADIENT	.00000	00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2812/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.983	474.200	199.92000	-.02293	.27492	.24253	219.00000	.00000	.00000	648.94000	.00000	.00000
-15.028	500.050	200.13000	-.80947	.02494	-.12333	219.78000	.00000	.00000	649.15000	.00000	.00000
-15.031	549.990	200.20000	.16537	.10216	.12213	219.31000	.00000	.00000	649.60000	.00000	.00000
-15.056	600.210	200.47000	-.26194	.01270	-.00209	219.70000	.00000	.00000	649.22000	.00000	.00000
-15.041	700.370	200.38000	.08553	.04133	-.03214	218.70000	.00000	.00000	646.03000	.00000	.00000
-14.908	798.480	199.83000	.03409	.04472	-.01738	218.32000	.00000	.00000	644.88000	.00000	.00000
-15.010	999.470	200.03000	.19195	.04847	-.03149	218.30000	.00000	.00000	646.31000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2816/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CIFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.966	324.120	200.05000	.36611	.02312	-.08803	221.20000	.00000	.00000	653.32000	.00000	.00000
-9.998	349.640	200.18000	.08492	-.00921	-.10839	220.87000	.00000	.00000	651.82000	.00000	.00000
-10.032	399.940	200.25000	.05107	.03361	.00444	221.18000	.00000	.00000	653.33000	.00000	.00000
-10.028	449.630	200.20000	-.27433	-.00573	-.05306	221.31000	.00000	.00000	653.73000	.00000	.00000
-10.057	500.390	200.22000	.45002	.02403	.01204	221.32000	.00000	.00000	653.45000	.00000	.00000
-10.021	550.910	200.27000	-.02463	.02031	.01203	221.32000	.00000	.00000	653.47000	.00000	.00000
-9.980	699.630	200.03000	.45035	.02176	.01057	221.30500	.00000	.00000	652.81000	.00000	.00000
-9.997	799.320	200.17000	.26237	.02353	.00761	221.16000	.00000	.00000	653.35000	.00000	.00000
-10.014	999.370	200.24000	.47615	.02699	.00221	221.00000	.00000	.00000	652.82000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK02B) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2820/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.491	199.560	200.15000	-.03425	.01020	-.03150	220.45000	.00000	.00000	651.17000	.00000	.00000
-5.513	249.800	200.08000	.63109	-.01007	-.05944	221.22000	.00000	.00000	653.47000	.00000	.00000
-5.545	300.250	200.24000	.23010	.02749	.03478	221.33000	.00000	.00000	653.64000	.00000	.00000
-5.551	400.210	200.26000	.[illegible]615	-.00568	-.01833	221.01000	.00000	.00000	652.83000	.00000	.00000
-5.516	499.740	200.21[illegible]00	.79419	.01342	.02537	220.53000	.00000	.00000	651.43000	.00000	.00000
-5.467	598.850	200.1[illegible]20	-.38053	.01452	.02330	220.87000	.00000	.00000	652.41000	.00000	.00000
-5.499	699.320	200.15000	-.22342	.01598	.02124	220.97000	.00000	.00000	652.71000	.00000	.00000
-5.510	799.330	200.21000	-.42097	.01754	.01839	220.51000	.00000	.00000	651.35000	.00000	.00000
-5.512	819.320	200.17000	.05265	.01879	.01684	220.5[illegible]000	.00000	.00000	651.45000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2460/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.004	23.701	200.05000	.25332	.02337	.0005[illegible]	217.9[illegible]000	.00000	.00000	643.82000	.00000	.00000
-.023	42.372	200.12000	-.05170	.02480	-.00499	217.9[illegible]000	.00000	.00000	643.82000	.00000	.00000
-.014	92.189	200.16000	-.05050	.02108	-.02187	218.8[illegible]000	.00000	.00000	645.77000	.00000	.00000
-.021	142.000	200.22000	-.21699	-.00231	-.05129	218.3[illegible]000	.00000	.00000	644.68000	.00000	.00000
-.037	192.450	200.14000	.14554	.00510	-.02[illegible]35	219.2[illegible]000	.00000	.00000	644.80000	.00000	.00000
-.021	292.250	200.11000	.00257	-.01354	-.03342	218.2[illegible]000	.00000	.00000	644.77000	.00000	.00000
.003	391.690	200.14000	.31271	.01216	-.00375	218.2[illegible]000	.00000	.00000	644.70000	.00000	.00000
.031	491.210	200.22000	.16814	.01389	-.00571	218.5[illegible]000	.00000	.00000	645.44000	.00000	.00000
.000	591.430	200.20000	.17379	.01434	-.00709	218.5[illegible]000	.00000	.00000	645.83000	.00000	.00000
-.002	791.460	200.22000	.17514	.01506	-.00893	218.6[illegible]000	.00000	.00000	645.83000	.00000	.00000
-.001	931.350	200.21000	.12535	.01553	-.00977	218.5[illegible]000	.00000	.00000	646.65000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2463/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.992	-58.681	200.19000	.15443	.01744	.00449	225.6[illegible]000	.00000	.00000	666.42000	.00000	.00000
4.982	6.768	200.11000	-.05242	.01763	-.00634	225.6[illegible]000	.00000	.00000	666.67000	.00000	.00000
4.984	42.187	200.08000	.16724	.01370	-.00651	225.6[illegible]000	.00000	.00000	666.47000	.00000	.00000
4.967	92.368	200.14000	-.08527	.01401	-.00485	225.4[illegible]000	.00000	.00000	666.02000	.00000	.00000
4.975	192.120	200.14000	-.05031	-.01273	-.01585	225.4[illegible]000	.00000	.00000	665.87000	.00000	.00000
5.004	291.610	200.20000	-.15005	-.01131	-.01891	225.4[illegible]000	.00000	.00000	665.82000	.00000	.00000
5.023	391.210	200.23000	.01837	.00239	-.00[illegible]53	225.2[illegible]000	.00000	.00000	666.54000	.00000	.00000
5.001	591.260	200.11000	-.13947	.00932	-.00886	225.7[illegible]000	.00000	.00000	666.63000	.00000	.00000
	GRADIENT	29.47996	-.00772	.00260	-.00093	33.2[illegible]838	.00000	.00000	98.21302	.00000	.00000

V41B-D9A (IA22),ORBITER (WRC3) W/ET SEPARATING (UVK028) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DSETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2808/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP2AL	TB1	TB2	DT	T
-20.030	625.530	974.45000	974.45000	85.00000	974.45000	974.57000	89.00000	76.00000	30.37200	99.64200
-20.035	700.480	974.72000	974.72000	86.00000	974.72000	974.57000	89.00000	76.00000	19.65700	99.64200
-19.978	759.590	974.75000	974.75000	86.00000	974.72000	974.57000	89.00000	76.00000	12.55300	99.64200
-19.970	999.210	974.75000	974.75000	86.00000	974.75000	974.57000	89.00000	76.00000	17.39100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2812/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP2AL	TB1	TB2	DT	T
-14.993	474.200	975.45000	975.45000	85.00000	975.45000	975.57000	89.00000	78.00000	13.27700	99.76800
-15.029	500.050	975.74000	975.74000	86.00000	975.74000	975.57000	89.00000	78.00000	2.93460	99.76800
-15.031	549.930	975.84000	975.84000	86.00000	975.84000	975.57000	89.00000	78.00000	-8.47930	99.76800
-15.055	600.210	975.84000	975.84000	86.00000	975.84000	975.57000	89.00000	78.00000	-12.37500	99.76800
-14.903	700.370	975.81000	975.81000	86.00000	975.81000	975.57000	89.00000	78.00000	3.42330	99.76800
-15.010	899.470	975.75000	975.75000	86.00000	975.75000	975.57000	89.00000	78.00000	8.04700	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	12.02100	99.76800
									.00000	.00000

RUN NO. 2816/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP2AL	TB1	TB2	DT	T
-9.956	324.120	975.83000	975.83000	84.00000	975.83000	975.83000	88.00000	78.00000	9.32350	99.76800
-9.989	349.640	975.91000	975.91000	84.00000	975.91000	975.83000	88.00000	78.00000	3.05920	99.76800
-10.032	399.540	975.78000	975.78000	84.00000	975.78000	975.83000	88.00000	78.00000	-2.26190	99.76800
-10.028	449.830	975.67000	975.67000	84.00000	975.67000	975.83000	88.00000	78.00000	-4.73030	99.76800
-10.057	500.390	975.84000	975.84000	84.00000	975.84000	975.83000	88.00000	78.00000	-4.10300	99.76800
-10.021	559.910	975.83000	975.83000	84.00000	975.83000	975.83000	88.00000	78.00000	-1.62030	99.76800
-9.990	699.630	975.83000	975.83000	84.00000	975.83000	975.83000	88.00000	78.00000	-.72726	99.76800
-9.997	799.320	975.78000	975.78000	84.00000	975.78000	975.83000	88.00000	78.00000	.29031	99.76800
-10.014	999.370	975.48000	975.48000	84.00000	975.48000	975.83000	88.00000	78.00000	1.74380	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC3 W/ET SEPARATING (UVK028) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1089.6000	IN. XO
LREF =	1290.3000	INCHES	YMRP =	.0000	IN. YO
BREF =	1290.3000	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DELTA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2820/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.491	189.580	975.90000	975.90000	83.00000	975.90000	975.[illegible]	83.00000	78.00000	2.42150	99.76800
-5.513	249.800	975.[illegible]	975.[illegible]	83.00000	975.[illegible]	975.[illegible]	83.00000	78.00000	-1.00310	99.76000
-5.545	300.280	975.04000	975.04000	83.00000	975.04000	975.[illegible]	83.00000	78.00000	-3.57910	99.76500
-5.551	400.210	975.[illegible]	975.[illegible]	83.00000	975.[illegible]	975.[illegible]	83.00000	78.00000	-3.97100	99.76000
-5.516	459.740	975.81000	975.81000	83.00000	975.81000	975.[illegible]	83.00000	78.00000	-2.93220	99.76000
-5.467	523.800	975.[illegible]	975.[illegible]	83.00000	975.[illegible]	975.[illegible]	83.00000	78.00000	-2.35230	99.76000
-5.493	639.320	975.76000	975.76000	83.00000	975.76000	975.[illegible]	83.00000	78.00000	-1.60350	99.76200
-5.510	769.380	975.[illegible]	975.[illegible]	83.00000	975.[illegible]	975.[illegible]	83.00000	78.00000	-.74470	99.76000
-5.512	819.320	975.[illegible]	975.[illegible]	83.00000	975.[illegible]	975.[illegible]	83.00000	78.00000	.04682	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2460/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.004	23.701	973.48000	973.48000	81.00000	973.48000	973.[illegible]	67.00000	73.00000	-6.32840	99.76800
-.023	42.372	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-6.73200	99.76300
-.014	82.189	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-7.43720	99.76300
-.021	142.089	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-7.10130	99.76300
-.037	192.480	973.51000	973.51000	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-6.70030	99.76300
-.021	282.250	973.48000	973.48000	81.00000	973.48000	973.[illegible]	67.00000	73.00000	-7.03090	99.76800
.003	391.630	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-6.47310	99.76300
.031	491.210	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-6.12040	99.76300
.000	591.430	973.37000	973.37000	81.00000	973.37000	973.[illegible]	67.00000	73.00000	-5.90090	99.76300
-.002	791.420	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-5.47090	99.76300
-.001	931.350	973.[illegible]	973.[illegible]	81.00000	973.[illegible]	973.[illegible]	67.00000	73.00000	-5.02770	99.76300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2463/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.992	-58.681	971.19000	971.19000	83.00000	971.19000	971.17000	67.00000	74.00000	-9.13710	99.64200
4.982	6.769	971.07000	971.07000	83.00000	971.07000	971.17000	67.00000	74.00000	-9.55110	99.64200
4.964	42.187	971.27000	971.27000	83.00000	971.27000	971.17000	67.00000	74.00000	-8.78140	99.64200
4.957	92.333	971.[illegible]	971.[illegible]	83.00000	971.[illegible]	971.17000	67.00000	74.00000	-7.44830	99.64200
4.975	192.120	971.37000	971.37000	83.00000	971.37000	971.17000	67.00000	74.00000	-5.43370	99.64200
5.004	291.810	971.[illegible]	971.[illegible]	83.00000	971.[illegible]	971.17000	67.00000	74.00000	-6.24410	99.64200
5.023	391.210	971.[illegible]	971.[illegible]	83.00000	971.[illegible]	971.17000	67.00000	74.00000	-6.60720	99.64200
5.001	591.260	971.37000	971.37000	83.00000	971.37000	971.17000	67.00000	74.00000	-6.43340	99.64200
	GRADIENT	143.05687	143.05687	12.22746	143.05687	143.07160	9.87036	10.90159	-1.40706	14.67914

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK029) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1323.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UNCLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2808/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.030	833.520	200.13000	-.25850	-25.03100	-.03880	-.5[illegible]035	-.03077	.02579	-.00063	.00097	.12172
-20.005	709.490	200.31000	-.04044	-25.11700	-.00382	-.5[illegible]019	-.00834	.02498	-.00109	.00067	.13134
-19.978	703.580	200.00000	.05849	-25.08300	.00333	-.5[illegible]200	.00803	.02477	-.00223	.00078	.15706
-19.970	999.210	199.82000	.02728	-24.92400	.00178	-.5[illegible]037	-.00347	.02089	-.00102	.00045	.15509
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2812/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.993	474.200	199.88000	-.02803	-20.01390	.00139	-.4[illegible]763	-.01918	.01631	.00157	.00094	.12347
-15.028	500.050	200.13000	-.00047	-20.07200	-.01312	-.3[illegible]017	-.04340	.01631	.00157	.00047	.10937
-15.031	519.980	200.32000	.19837	-20.07300	.00143	-.3[illegible]722	-.00315	.01784	.00045	.00045	.11572
-15.056	600.210	200.47000	-.25194	-20.00700	-.00330	-.4[illegible]209	-.02446	.01763	-.00008	.00041	.12408
-15.041	700.370	200.33000	.08033	-20.00000	-.00185	-.4[illegible]865	.00457	.01928	-.00120	.00039	.14552
-14.988	783.400	199.92000	.05408	-19.93300	.00343	-.4[illegible]397	.01783	.01958	-.00862	.00056	.16295
-15.010	999.470	200.03000	.19193	-20.08200	.00328	-.3[illegible]547	-.04288	.01381	.00084	.00015	.12249
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2316/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.996	324.120	200.05000	.30911	-15.00300	.01303	-.3[illegible]641	-.00039	.01724	-.00214	.00073	.13414
-9.998	349.640	200.10000	.08492	-15.03900	.00002	-.3[illegible]141	-.02052	.01293	.00136	.00041	.11542
-10.032	393.910	200.22000	.05107	-15.03500	.00129	-.2[illegible]313	-.04022	.01249	.00123	.00018	.10381
-10.029	449.800	200.20000	-.27433	-15.03800	-.00208	-.2[illegible]322	-.03018	.01353	.00073	.00018	.10957
-10.057	500.390	200.23000	.48102	-15.00400	.00597	-.2[illegible]478	-.01913	.01385	.00023	.00015	.11408
-10.021	553.910	200.37000	-.02433	-15.04800	-.00179	-.3[illegible]169	.00259	.01376	-.00034	.00013	.13144
-9.990	606.000	200.05000	.48135	-14.90300	.01151	-.2[illegible]084	.00435	.01445	-.00135	.00022	.14010
-9.997	799.320	200.17000	.20137	-15.02000	.00433	-.2[illegible]036	-.02851	.00937	.00125	-.00009	.11220
-10.014	959.370	200.24000	.47315	-15.03700	.00743	-.2[illegible]035	-.03373	.01032	.00138	-.00001	.11052
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 06 MAY 77

TABULATED SOURCE DATA, IA22, AEDC V418-09A)

V418-09A (IA22),ET SEPARATING FROM ORB (04RC3)

(AVK028) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1329.7200 IN. XT
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT
SCALE =	.0125		

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DSETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2820/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.491	193.560	200.15000	-.03425	-10.50000	.00075	-.03508	-.01495	.00555	.00131	.00004	.11435
-5.513	249.600	200.03000	.03109	-10.53000	.01200	-.00330	-.00024	.00871	.00140	-.00002	.10238
-5.545	300.250	200.24000	.23010	-10.50000	.00990	-.00982	-.03065	.00981	.00127	-.00002	.09549
-5.551	400.210	200.20000	.44515	-10.57300	.00006	-.00714	-.01421	.01164	.00033	-.00004	.10799
-5.516	489.740	200.21000	.70419	-10.54100	.01004	-.01403	.00140	.01154	-.00021	-.00005	.11733
-5.467	603.020	200.19000	-.00003	-10.40000	-.00161	-.00737	.00102	.01230	-.00072	.00011	.12201
-5.493	699.330	200.13000	-.00002	-10.60100	-.00005	-.00003	-.00005	.00005	.00109	-.00016	.10016
-5.510	799.330	200.21000	-.45557	-10.55000	-.00005	-.00005	-.03173	.00243	.00124	-.00020	.10051
-5.512	819.320	200.17000	.03003	-10.53400	.00153	-.00074	-.03169	.00020	.00122	-.00021	.10004
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2460/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.004	23.701	200.03000	.28332	-5.00000	.00003	-.00035	-.00014	.00005	.00071	.00035	.09728
-.023	42.372	200.12000	-.05170	-5.00000	.00273	-.00000	-.00575	.00378	.00001	.00019	.09795
-.014	92.169	200.10000	-.00000	-5.01200	.00011	-.00005	-.00027	.00004	.00116	.00003	.09882
-.021	142.000	200.02000	-.21503	-5.00220	-.00181	-.00223	-.01503	.00445	.00152	.00010	.09809
-.037	192.450	200.14000	.14084	-5.00030	-.00006	-.00971	-.01503	.00333	.00138	.00004	.09873
-.021	292.230	200.11000	.00357	-5.04230	-.00120	-.00855	-.00167	.00303	.00050	.00002	.09706
.003	391.680	200.14000	.31271	-5.02800	.00355	-.00673	.00772	.00711	-.00011	.00010	.10204
.031	491.210	200.03000	.10314	-4.99210	.00405	-.00371	.00305	.00719	-.00022	.00015	.10514
.000	591.430	200.20000	.17379	-5.00250	.00197	-.00416	-.01459	.00339	.03070	-.00006	.09808
-.002	791.480	200.03000	.17514	-5.02410	.00550	-.00332	-.01540	.00483	.00035	-.00007	.09209
-.001	931.350	200.21000	.12005	-5.02330	.00209	-.00287	-.01523	.00485	.00075	-.00007	.09258
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2463/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.992	-58.691	200.19000	.15443	-.03006	.00372	-.04687	-.01448	.00781	-.00129	.00002	.09532
4.982	6.769	200.11000	-.03842	-.02810	.00153	-.03227	-.01128	.00338	.00040	-.00002	.09936
4.984	42.197	200.03000	.16724	-.04114	.00278	-.03163	-.00034	.00377	.00005	.00006	.09834
4.987	82.358	200.14000	-.03827	-.04827	-.00009	-.04031	-.00101	.00575	.00031	.00002	.09803
4.975	182.120	200.14000	-.05031	-.04357	-.00149	-.03137	.01687	.00459	.00038	-.00004	.09432
5.004	291.610	200.20000	-.15005	-.01940	-.00233	-.04834	.01919	.00391	.00028	.00007	.09335
5.023	391.210	200.20000	.01837	.00024	.00035	-.03282	.01425	.00311	.00014	-.00005	.09776
5.001	591.230	200.11000	-.13547	-.02072	-.00102	-.03208	.00107	.00452	.00048	-.00009	.08037
	GRADIENT	29.47698	-.00772	-.00326	.00023	-.00814	-.00168	.00101	.00006	-.00000	.01325

V41B-D8A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK029) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DSETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2809/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 3.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.058	625.600	400.28000	.19930	.00332	.24809	-.07207	.00129	-.00016	.00125	-.02186	.18720
-19.991	629.640	399.93000	-.11033	.00175	.17304	-.05421	-.00349	.00014	.00155	-.02190	.18780
-19.977	799.180	399.70000	.45037	.00332	.12818	-.05311	-.00359	.00005	.00030	-.01688	.18778
-19.928	999.080	399.59000	.48421	.01215	.05822	-.05402	-.00422	-.00020	.00021	-.00565	.18715
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2813/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.052	475.120	400.10000	.01526	.00895	.22348	-.05045	-.00851	.00000	.00115	-.01844	.18756
-15.045	500.010	400.13000	.31751	.00431	.18101	-.05003	-.00824	-.00019	.00104	-.01491	.18782
-15.005	549.500	399.92000	.21031	.00783	.14720	-.04033	-.00805	.00000	.00109	-.01631	.18799
-14.995	599.330	399.87000	.10011	.00478	.12344	-.04033	-.00803	-.00002	.00102	-.01335	.18791
-14.971	699.810	399.83000	.05020	.00353	.09159	-.03491	-.00421	.00003	.00020	-.00545	.18798
-14.950	799.670	399.91000	.11004	.00402	.08182	-.03408	-.00419	.00001	.00021	-.00474	.18791
-15.058	999.760	400.24000	-.02559	-.00315	.08176	-.03403	-.00427	-.00001	.00022	-.00445	.18791
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2817/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.022	325.030	400.03000	.20012	.00165	.27192	-.06003	-.00322	.00010	.00104	-.01360	.18304
-10.051	349.920	400.22000	-.49309	-.00304	.21315	-.05006	-.00367	-.00019	.00110	-.00955	.18323
-10.055	399.800	400.15000	.00783	-.00177	.15001	-.04573	-.00337	-.00014	.00038	-.01257	.18309
-9.992	449.260	400.10000	.05205	.00094	.12316	-.04177	-.00379	.00000	.00049	-.01398	.18916
-9.997	499.230	400.06000	.31636	.00733	.11168	-.03315	-.00453	.00016	.00030	-.01001	.18304
-9.974	599.760	400.04000	-.25159	-.00170	.09982	-.03484	-.00437	.00003	.00023	-.00469	.18302
-9.976	603.750	399.92000	.21032	.00205	.08205	-.03417	-.00431	.00002	.00021	-.00432	.18337
-10.020	703.310	400.21000	.47144	.00150	.08205	-.03412	-.00434	.00002	.00021	-.00434	.18304
-10.075	959.950	400.30000	.55700	.00000	.07935	-.03412	-.00414	.00003	.00022	-.00438	.18220
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK029) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2821/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-5.547	200.470	400.19000	-.00789	.00353	.23356	-.12971	-.00392	.00001	.00078	-.00838	.18837
-5.485	248.780	400.10000	.00410	.00044	.20926	-.13995	-.00380	.00002	.00102	-.00426	.18811
-5.533	299.440	400.15000	-.01667	-.00050	.16025	-.14196	-.00320	-.00015	.00067	-.00862	.18797
-5.469	398.820	399.99000	-.01522	.00623	.11047	-.13755	-.00464	.00020	.00000	-.00895	.18797
-5.475	493.640	400.12000	-.30394	-.00209	.09376	-.13343	-.00418	.00000	.00025	-.00429	.18865
-5.487	593.720	400.12000	.15034	.00478	.09230	-.13307	-.00428	-.00001	.00021	-.00325	.18823
-5.522	699.300	400.21000	-.66992	-.00826	.09207	-.13393	-.00420	-.00000	.00021	-.00318	.18825
-5.548	799.770	400.29000	-.93707	-.01388	.09216	-.13391	-.00420	-.00003	.00022	-.00306	.18825
-5.515	819.290	400.24000	-.56917	-.00593	.09235	-.13392	-.00435	-.00001	.00022	-.00303	.18825
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2461/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.033	24.615	399.99000	.02925	.00156	.20096	-.10589	-.01274	.00009	.00079	.01297	.18872
.012	41.197	400.13000	.52143	.01327	.19484	-.10924	-.01280	.00019	.00072	.01132	.18860
.042	90.595	400.15000	-.06720	.00219	.18393	-.12051	-.01304	.00062	.00071	.01000	.18842
.011	141.240	400.10000	.01728	.00080	.17390	-.12491	-.01313	.00061	.00017	.00896	.18849
.000	191.320	400.09000	-.11026	.00047	.16035	-.13185	-.01210	.00043	.00002	.01117	.18902
.031	290.650	400.16000	.12313	.00323	.12556	-.13543	-.01236	.00036	.00048	.01083	.18819
.035	390.800	400.29000	.02251	.00322	.11415	-.13385	-.01224	.00039	.00024	.01233	.18833
.021	491.090	400.19000	-.29275	-.00075	.10082	-.13357	-.01202	.00036	.00000	.01408	.18840
-.005	591.250	400.15000	.26446	.00497	.10078	-.13356	-.01189	.00036	-.00002	.01401	.18849
-.024	791.730	400.26000	-.03545	.00077	.09925	-.13317	-.01115	.00037	-.00022	.01371	.18851
.001	931.290	400.29000	.05170	.00302	.09938	-.13315	-.01118	.00037	-.00023	.01356	.18849
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2464/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
4.910	-56.154	399.83000	.31028	.00183	.16517	-.10461	-.01304	-.00073	.00018	.01579	.18765
5.049	4.911	400.28000	-.36621	.00190	.17433	-.11377	-.01424	.00013	.00104	.00969	.18822
5.001	41.082	400.15000	.34906	.00760	.16597	-.12138	-.01421	.00051	.00081	.00647	.18736
4.993	91.271	400.23000	.23521	.00248	.15366	-.12406	-.01371	.00053	.00014	.00396	.18785
5.028	190.550	400.25000	-.27365	-.00268	.15227	-.13438	-.01288	.00030	.00039	.01094	.18757
5.026	290.670	400.22000	-.13556	.00154	.13056	-.13718	-.01318	.00043	.00015	.00932	.18799
5.018	390.950	400.21000	.29771	.00300	.11233	-.13373	-.01190	.00041	-.00008	.01078	.18841
4.977	591.440	400.21000	-.12541	.00103	.10531	-.13243	-.01148	.00093	-.00027	.01041	.18827
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D8A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK029) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2809/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.058	625.600	-5.05100	-.00182	.00332	-.02701	-.03056	.01143	.01002	-.00032	.00151
-19.991	699.840	-5.03700	-.00184	.00175	-.09823	-.01270	.01139	.00523	-.00002	.00182
-19.977	799.180	-5.02600	-.00153	.00952	-.14679	.00239	.02060	.00483	-.00012	.00056
-19.928	998.050	-5.02300	-.00141	.01215	-.18618	.00754	.02947	.00452	-.00017	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2813/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.052	475.120	-5.04100	-.00177	.00295	-.05390	-.01859	.01512	.00628	-.00016	.00141
-15.045	500.010	-5.03700	-.00148	.00431	-.09632	-.01197	.01864	.00655	-.00035	.00130
-15.005	549.500	-5.03400	-.00160	.00783	-.13014	-.00649	.01725	.00515	-.00016	.00135
-14.995	599.330	-5.02700	-.00148	.00479	-.14833	.00132	.01990	.00511	-.00018	.00118
-14.971	698.810	-5.02400	-.00146	.00553	-.18310	.00559	.02315	.00459	-.00013	.00046
-14.960	798.570	-5.02300	-.00143	.00482	-.18325	.00706	.02398	.00462	-.00015	.00048
-15.058	999.760	-5.02300	-.00140	-.00315	-.18543	.00795	.02821	.00455	-.00018	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2817/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.022	325.030	-5.03900	-.00181	.00156	-.00769	-.01476	.02023	.00564	-.00008	.00130
-10.051	349.920	-5.03200	-.00142	-.00504	-.06145	-.00877	.02428	.00619	-.00036	.00137
-10.055	399.800	-5.03200	-.00143	-.00177	-.12843	-.00459	.02122	.00548	-.00030	.00094
-9.992	449.260	-5.02820	-.00152	.00334	-.15577	.00032	.01977	.00506	-.00016	.00075
-9.997	499.230	-5.02530	-.00162	.00733	-.16778	.00403	.02301	.00433	-.00001	.00056
-9.974	599.760	-5.02530	-.00144	-.00170	-.18491	.00763	.02814	.00449	-.00014	.00049
-9.978	699.750	-5.02240	-.00143	.00306	-.18672	.00305	.02934	.00456	-.00015	.00047
-10.020	799.310	-5.02300	-.00143	.00330	-.18637	.00808	.02949	.00452	-.00014	.00048
-10.075	999.960	-5.02300	-.00144	.00680	-.18599	.00808	.02946	.00473	-.00014	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK029) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PAPAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2821/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.547	200.470	-5.01250	-.00134	.00353	-.04532	.01238	.02537	.00492	-.00015	.00105
-5.485	248.780	-5.02280	-.00149	.00044	-.06953	.00212	.02948	.00504	-.00015	.00128
-5.533	289.440	-5.02720	-.00136	-.00050	-.11894	.00017	.02516	.00565	-.00031	.00093
-5.488	339.820	-5.02500	-.00166	.00523	-.16774	.00443	.02471	.00418	.00003	.00026
-5.475	498.640	-5.02350	-.00143	-.00269	-.17971	.00390	.02940	.00465	-.00016	.00051
-5.487	598.760	-5.02240	-.00139	.00478	-.18315	.00205	.03045	.00455	-.00018	.00048
-5.522	699.300	-5.02200	-.00140	-.00086	-.18327	.00207	.03050	.00463	-.00017	.00048
-5.548	799.770	-5.02250	-.00137	-.01308	-.18340	.00313	.03085	.00464	-.00020	.00048
-5.515	819.290	-5.02300	-.00139	-.00593	-.18600	.00808	.03085	.00447	-.00018	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2461/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.033	24.615	-4.99212	-.00095	.00156	-.07360	.03554	.04619	-.00403	-.00007	.00105
.012	41.197	-4.99547	-.00111	.01327	-.07959	.03217	.04453	-.00410	.00003	.00098
.042	90.595	-5.00640	-.00173	.00219	-.09032	.02086	.04317	-.00434	.00045	.00097
.011	141.240	-5.01101	-.00179	.00080	-.09995	.01640	.04199	-.00444	.00045	.00043
.000	191.320	-5.01810	-.00170	.00047	-.11346	.00547	.04430	-.00342	.00027	.00028
.031	290.650	-5.02393	-.00159	.00323	-.14959	.00509	.04412	-.00353	.00020	.00074
.035	390.800	-5.02440	-.00172	.00322	-.16280	.00516	.04585	-.00346	.00022	.00050
.021	491.090	-5.02207	-.00165	-.00075	-.17739	.00841	.04775	-.00320	.00020	.00026
-.005	591.250	-5.02158	-.00165	.00407	-.17834	.00885	.04778	-.00304	.00019	.00024
-.024	791.730	-5.02170	-.00167	.00077	-.18022	.00900	.04753	-.00229	.00020	.00004
.001	931.290	-5.02166	-.00167	.00302	-.18058	.00910	.04744	-.00231	.00020	.00003
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2464/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.910	-56.154	-4.99189	-.00005	.00183	-.10029	.03347	.05033	-.00399	-.00090	.00045
5.049	4.911	-5.00051	-.00107	.00190	-.11113	.02931	.04423	-.00519	-.00004	.00131
5.001	41.082	-5.00757	-.00158	.00760	-.11944	.02169	.04101	-.00516	.00035	.00108
4.993	91.271	-5.01047	-.00164	.00248	-.13201	.01905	.03853	-.00465	.00036	.00041
5.028	190.550	-5.01970	-.00155	-.00258	-.13342	.00873	.04551	-.00382	.00013	.00066
5.026	290.670	-5.02325	-.00172	.00154	-.15514	.00593	.04339	-.00412	.00026	.00042
5.018	390.530	-5.02101	-.00169	.00300	-.17339	.00938	.04536	-.00284	.00024	.00019
4.977	591.440	-5.02017	-.00223	.00103	-.18051	.01070	.04500	-.00241	.00076	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK029) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2809/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.058	625.600	400.26000	.19930	.29423	.23217	217.97000	.00000	.00000	643.87000	.00000	.00000
-19.991	699.840	399.96000	-.11083	.04420	-.09895	217.91000	.00000	.00000	643.78000	.00000	.00000
-19.977	799.180	399.78000	.45697	.05307	-.06713	217.87000	.00000	.00000	643.57000	.00000	.00000
-19.928	998.050	399.59000	.46421	.05540	-.05576	218.21000	.00000	.00000	644.57000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2813/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.052	475.120	400.10000	.01526	.10823	-.03029	219.73000	.00000	.00000	649.20000	.00000	.00000
-15.045	500.010	400.13000	.31751	.14570	.03546	219.71000	.00000	.00000	649.08000	.00000	.00000
-15.005	549.500	399.92000	.21881	.06310	-.03261	219.73000	.00000	.00000	649.13000	.00000	.00000
-14.995	599.330	399.97000	.16011	.05975	-.05562	219.63000	.00000	.00000	648.94000	.00000	.00000
-14.971	699.810	399.66000	.05020	.05494	-.05124	219.53000	.00000	.00000	649.72000	.00000	.00000
-14.960	798.570	399.94000	.11004	.04978	-.04517	220.03000	.00000	.00000	650.13000	.00000	.00000
-15.058	999.760	400.24000	-.02959	.04234	-.03214	220.43000	.00000	.00000	651.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2817/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.022	325.030	400.08000	.20012	-.02591	-.15317	221.53000	.00000	.00000	654.42000	.00000	.00000
-10.051	349.920	400.22000	-.49309	.00238	-.12499	221.51000	.00000	.00000	654.40000	.00000	.00000
-10.055	399.800	400.15000	.00758	.02672	-.08047	221.23000	.00000	.00000	653.55000	.00000	.00000
-9.992	449.260	400.10000	.05265	.04998	-.02948	221.00000	.00000	.00000	652.65000	.00000	.00000
-9.997	499.230	400.08000	.31636	.04505	-.02979	221.43000	.00000	.00000	654.09000	.00000	.00000
-9.974	598.760	400.04000	-.25159	.03969	-.02556	221.41000	.00000	.00000	654.00000	.00000	.00000
-9.976	698.750	399.93000	.21982	.03430	-.01768	221.63000	.00000	.00000	654.82000	.00000	.00000
-10.020	799.310	400.21000	.47144	.02947	-.00854	221.53000	.00000	.00000	654.45000	.00000	.00000
-10.075	999.960	400.30000	.55700	.02468	-.00042	221.53000	.00000	.00000	654.51000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK029) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1009.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2821/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.547	200.470	400.19000	-.00709	.00839	-.03330	220.9?000	.00000	.00000	652.71000	.00000	.00000
-5.485	248.780	400.10000	.00410	-.00885	-.03509	220.9?000	.00000	.00000	652.51000	.00000	.00000
-5.533	289.440	400.15000	-.01667	.00160	-.03347	221.2 000	.00000	.00000	653.43000	.00000	.00000
-5.488	359.820	399.89000	-.01822	.03128	.00826	220.4?000	.00000	.00000	651.15000	.00000	.00000
-5.475	483.640	400.12000	-.30384	.02793	.00911	220.0?000	.00000	.00000	651.72000	.00000	.00000
-5.487	593.760	400.12000	.15084	.00321	.01034	220.6?000	.00000	.00000	651.70000	.00000	.00000
-5.522	683.300	400.21000	-.[illegible]	.02270	.01223	220.5?000	.00000	.00000	651.46000	.00000	.00000
-5.548	783.770	400.22000	-.93707	.02032	.01403	220.7?000	.00000	.00000	651.[illegible]000	.00000	.00000
-5.515	819.280	400.24000	-.53017	.01022	.01686	220.5?000	.00000	.00000	651.49000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0?000	.00000	.00000	.00000		

RUN NO. 2461/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.033	24.615	399.99000	.02925	.01938	-.01650	217.5?000	.00000	.00000	642.60000	.00000	.00000
.012	41.197	400.13000	.52143	.01509	-.02021	217.4?000	.00000	.00000	642.28000	.00000	.00000
.042	90.593	400.15000	-.09720	.02255	-.02232	217.2?000	.00000	.00000	641.65000	.00000	.00000
.011	141.240	400.10000	.01728	-.00043	-.04549	216.9?000	.03000	.00000	640.72000	.00000	.00000
.000	191.320	400.03000	-.11026	-.02420	-.03799	216.9?000	.00000	.00000	640.84000	.00000	.00000
.031	290.650	400.16000	.12313	-.00187	-.06015	218.0?000	.00000	.00000	643.95000	.00000	.00000
.038	390.800	400.28000	.02251	.02528	-.00531	219.5?000	.00000	.00000	648.45000	.00000	.00000
.021	491.090	400.19000	-.28275	.02101	-.00244	220.4?000	.00000	.00000	651.16000	.00000	.00000
-.005	591.250	400.15000	.29446	.01793	-.00509	221.1?000	.00000	.00000	653.27000	.00000	.00000
-.024	791.730	400.28000	-.03045	.01575	-.00326	221.4?000	.00000	.00000	654.03000	.00000	.00000
.001	931.290	400.28000	.05170	.01417	-.00176	221.8?000	.00000	.00000	655.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0?000	.00000	.00000	.00000		

RUN NO. 2464/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.910	-56.154	399.83000	.31028	.00214	-.00043	226.1?000	.00000	.00000	658.11000	.00000	.00000
5.049	4.911	400.28000	-.33321	.01480	-.01282	226.1?000	.00000	.00000	658.13000	.00000	.00000
5.001	41.082	400.15000	.34006	.01530	-.01349	226.1?000	.00000	.00000	658.02000	.00000	.00000
4.993	91.271	400.28000	.20321	-.01057	-.04509	226.3?000	.00000	.00000	658.60000	.00000	.00000
5.028	190.550	400.28000	-.27385	-.00504	-.03353	226.3?000	.00000	.00000	658.67000	.00000	.00000
5.026	290.670	400.22000	-.13385	.00455	-.00523	226.3?000	.00000	.00000	658.69000	.00000	.00000
5.018	390.950	400.21000	.29771	.01305	.00335	226.3?000	.00000	.00000	658.74000	.00000	.00000
4.977	591.440	400.21000	-.12041	.01037	.01112	226.4?000	.00000	.00000	658.97000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0?000	.00000	.00000	.00000		

V418-D9A (IA22),ORBITER(O4RC3) 1:/ET SEPARATING (UVK029) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.8000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2809/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.058	625.600	974.45000	974.45000	88.00000	974.45000	974.27000	88.00000	76.00000	37.99300	99.76800
-19.991	699.840	974.32000	974.32000	88.00000	974.32000	974.27000	88.00000	76.00000	34.09300	99.76800
-19.977	799.180	974.48000	974.48000	88.00000	974.48000	974.27000	88.00000	76.00000	25.31900	99.76800
-19.928	998.050	974.55000	974.55000	88.00000	974.55000	974.27000	88.00000	76.00000	16.94900	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2813/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.052	475.120	975.82000	975.82000	85.00000	975.82000	975.62000	87.00000	78.00000	26.36800	99.76800
-15.045	500.010	975.64000	975.64000	85.00000	975.64000	975.62000	87.00000	78.00000	24.86600	99.76800
-15.005	549.500	975.71000	975.71000	85.00000	975.71000	975.62000	87.00000	78.00000	20.29000	99.76800
-14.995	599.330	975.90000	975.90000	85.00000	975.90000	975.62000	87.00000	78.00000	14.25500	99.76800
-14.971	699.810	975.64000	975.64000	85.00000	975.64000	975.62000	87.00000	78.00000	9.64640	99.76800
-14.960	798.570	975.77000	975.77000	85.00000	975.77000	975.62000	87.00000	78.00000	6.20440	99.76800
-15.058	999.760	975.62000	975.62000	85.00000	975.82000	975.62000	87.00000	78.00000	3.75110	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 28:7/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.022	325.030	975.94000	975.94000	84.00000	975.94000	975.74000	86.00000	78.00000	17.50200	99.76800
-10.051	349.920	975.91000	975.91000	84.00000	975.91000	975.74000	86.00000	78.00000	17.95800	99.76800
-10.055	399.800	976.10000	976.10000	84.00000	976.10000	975.74000	86.00000	78.00000	16.30700	99.76800
-9.992	449.260	976.00000	976.00000	84.00000	976.00000	975.74000	86.00000	78.00000	12.52700	99.76800
-9.997	499.230	975.93000	975.93000	84.00000	975.93000	975.74000	86.00000	78.00000	8.77140	99.76800
-9.974	598.760	975.80000	975.80000	84.00000	975.80000	975.74000	86.00000	78.00000	6.09210	99.76800
-9.976	698.750	976.05000	976.05000	84.00000	976.05000	975.74000	86.00000	78.00000	4.40260	99.76800
-10.020	799.310	975.93000	975.93000	84.00000	975.93000	975.74000	86.00000	78.00000	2.96480	99.76800
-10.075	999.960	976.07000	976.07000	84.00000	976.07000	975.74000	86.00000	78.00000	1.21930	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC3) L/ET SEPARATING (UVK029) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2821/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.547	200.470	975.80000	975.80000	83.00000	975.80000	975.57999	85.00000	78.00000	1.97860	99.76800
-5.485	248.780	975.93000	975.93000	83.00000	975.93000	975.57999	85.00000	78.00000	4.11480	99.76800
-5.533	299.440	975.91000	975.91000	83.00000	975.91000	975.57999	85.00000	78.00000	6.95860	99.76800
-5.488	398.820	975.87000	975.87000	83.00000	975.87000	975.57999	85.00000	78.00000	6.82130	99.76800
-5.475	498.640	975.82000	975.82000	83.00000	975.82000	975.57999	85.00000	78.00000	6.25410	99.76800
-5.487	598.760	975.73000	975.73000	83.00000	975.73000	975.57999	85.00000	78.00000	5.17690	99.76800
-5.522	699.300	975.65000	975.65000	83.00000	975.65000	975.57999	85.00000	78.00000	3.56910	99.76800
-5.548	799.770	975.65000	975.66000	83.00000	975.66000	975.57999	85.00000	78.00000	2.10030	99.76800
-5.515	819.290	975.85000	975.85000	83.00000	975.65000	975.57999	85.00000	78.00000	1.03290	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2461/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.033	24.615	973.51000	973.51000	81.00000	973.51000	973.30000	67.00000	74.00000	-7.66690	99.64200
.012	41.197	973.52000	973.52000	81.00000	973.52000	973.30000	67.00000	74.00000	-9.28460	99.64200
.042	90.595	973.49000	973.49000	81.00000	973.49000	973.30000	67.00000	74.00000	-10.47200	99.64200
.011	141.240	973.51000	973.51000	81.00000	973.51000	973.30000	67.00000	74.00000	-10.20800	99.64200
.000	191.320	973.21000	973.21000	81.00000	973.21000	973.30000	67.00000	74.00000	-8.05950	99.64200
.031	290.650	973.24000	973.24000	81.00000	973.24000	973.30000	67.00000	74.00000	-4.82570	99.64200
.036	390.800	973.27000	973.27000	81.00000	973.27000	973.30000	67.00000	74.00000	-2.47850	99.64200
.021	491.090	973.01000	973.01000	81.00000	973.01000	973.30000	67.00000	74.00000	-1.74160	99.64200
-.005	591.250	972.79000	972.79000	81.00000	972.79000	973.30000	67.00000	74.00000	-2.15040	99.64200
-.024	791.730	973.02000	973.02000	81.00000	973.02000	973.30000	67.00000	74.00000	-3.06720	99.64200
.001	931.290	972.83000	972.83000	81.00000	972.83000	973.30000	67.00000	74.00000	-3.95140	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2464/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.910	-56.154	971.19000	971.19000	83.00000	971.19000	971.99000	68.00000	74.00000	-8.32380	99.64200
5.049	4.911	971.22000	971.22000	83.00000	971.22000	971.99000	68.00000	74.00000	-10.00000	99.64200
5.001	41.082	971.05000	971.05000	83.00000	971.05000	971.99000	68.00000	74.00000	-11.34200	99.64200
4.993	91.271	970.91000	970.91000	83.00000	970.91000	971.99000	68.00000	74.00000	-11.00600	99.64200
5.028	190.550	971.01000	971.01000	83.00000	971.01000	971.99000	68.00000	74.00000	-8.80380	99.64200
5.026	290.670	971.04000	971.04000	83.00000	971.04000	971.99000	68.00000	74.00000	-6.80250	99.64200
5.018	390.950	971.11000	971.11000	83.00000	971.11000	971.99000	68.00000	74.00000	-4.91890	99.64200
4.977	591.440	970.95000	970.95000	83.00000	970.95000	971.99000	68.00000	74.00000	-4.59100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATIN) FROM ORB (04RC3) (AVK029) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2809/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.058	625.600	400.26000	.19930	-25.10900	.00150	-.50357	-.05457	.02439	.00011	.00087	.11987
-19.991	699.840	399.96000	-.11083	-25.02800	-.00009	-.52686	-.03644	.02530	-.00050	.00079	.13177
-19.977	799.180	399.78000	.45697	-25.00300	.00809	-.55025	-.01336	.02484	-.00144	.00072	.14029
-19.928	998.050	399.59000	.46421	-24.95100	.01074	-.57756	.02592	.02536	-.00372	.00098	.17925
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2813/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.052	475.120	400.10000	.01526	-20.09300	.00118	-.40099	-.03888	.01577	.00141	.00056	.12268
-15.045	500.010	400.13000	.31751	-20.08200	.00282	-.37032	-.05680	.01439	.00259	.00041	.10863
-15.005	549.500	399.92000	.21881	-20.03500	.00622	-.37785	-.05026	.01680	.00122	.00041	.11221
-14.995	599.330	399.97000	.16011	-20.02200	.00330	-.39323	-.03745	.01706	.00092	.00041	.11926
-14.971	698.810	399.86000	.05820	-19.99500	.00407	-.41235	-.01579	.01765	-.00049	.00035	.13076
-14.960	798.570	399.94000	.11004	-19.98300	.00340	-.43592	.00931	.01640	-.00156	.00036	.15236
-15.058	999.760	400.24000	-.02939	-20.08100	-.00454	-.38555	-.02539	.01275	.00087	.00000	.12644
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2817/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.022	325.030	400.08000	.20012	-15.05300	-.00024	-.36466	-.00271	.01476	-.00031	.00078	.13895
-10.051	349.920	400.22000	-.49309	-15.00300	-.00547	-.31662	-.02636	.01341	.00044	.00061	.11668
-10.055	393.800	400.15000	.00758	-15.08700	-.00320	-.26465	-.05173	.00976	.00254	.00014	.09989
-9.992	449.260	400.10000	.05265	-15.02000	.00432	-.27038	-.04400	.01171	.00159	.00014	.10601
-9.997	499.230	400.08000	.31636	-15.02300	.00570	-.27952	-.03447	.01289	.00094	.00016	.10844
-9.974	598.760	400.04000	-.25159	-14.99300	-.00315	-.29730	-.01320	.01355	-.00005	.00009	.11983
-9.976	698.750	399.98000	.21962	-14.99800	.00463	-.30891	.00469	.01409	-.00075	.00013	.13465
-10.020	799.310	400.21000	.47144	-15.04300	.00706	-.28298	-.00389	.01346	-.00066	.00022	.13164
-10.075	999.960	400.30000	.55700	-15.09300	.00536	-.22031	-.03938	.01040	.00122	-.00001	.10843
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATIN) FROM ORB (04RC3) (AVK029) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2821/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.547	200.472	400.19000	-.00789	-10.55900	.00220	-.24793	-.02529	.01284	.00032	-.00003	.11075
-5.485	248.780	400.10000	.00410	-10.50300	-.00105	-.23517	-.02184	.01043	.00131	.00017	.11168
-5.533	299.440	400.15000	-.01657	-10.55000	-.00125	-.19466	-.03970	.00597	.00254	.00014	.09558
-5.488	393.820	399.99000	-.01522	-10.51300	.00355	-.19300	-.02717	.01065	.00094	-.00005	.10164
-5.475	493.640	400.12000	-.30394	-10.49200	-.00411	-.20676	-.01052	.01184	.00013	-.00007	.11059
-5.487	593.760	400.12000	.15094	-10.50900	.00339	-.21036	.00211	.01137	-.00047	-.00006	.12030
-5.522	699.300	400.21000	-.65092	-10.54500	-.00936	-.18542	-.00514	.01093	-.00023	.00003	.11818
-5.548	799.770	400.28000	-.93707	-10.57000	-.01525	-.14530	-.03037	.00886	.00116	-.00018	.09976
-5.515	819.290	400.24000	-.55017	-10.53600	-.00732	-.14146	-.03180	.00877	.00115	-.00021	.10040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2461/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.033	24.615	399.99000	.02925	-5.02540	.00061	-.14573	-.03710	.00560	.00143	.00028	.10072
.012	41.197	400.13000	.52143	-4.99310	.01216	-.14405	-.03087	.00661	.00018	.00017	.10069
.042	90.595	400.15000	-.06720	-4.99430	.00046	-.14150	-.01844	.00618	-.00010	-.00001	.10030
.011	141.240	400.10000	.01728	-5.00030	-.00088	-.13198	-.01895	.00582	.00094	-.00001	.09833
.000	191.320	400.09000	-.11026	-5.01000	-.00124	-.11534	-.02393	.00684	.00090	.00013	.09182
.031	290.650	400.16000	.12313	-4.99260	.00155	-.11086	-.01354	.00510	.00111	.00008	.09185
.036	390.800	400.29000	.02231	-4.99030	.00150	-.11451	-.00026	.00618	.00030	.00002	.09561
.021	491.090	400.19000	-.29275	-5.00050	-.00241	-.11303	.00761	.00542	-.00024	.00010	.10430
-.005	591.250	400.15000	.20446	-5.02050	.00333	-.08036	.00080	.00503	.00017	.00010	.10049
-.024	791.730	400.26000	-.03545	-5.04540	-.00090	-.08278	-.01545	.00463	.00072	-.00007	.09117
.001	931.290	400.29000	.05170	-5.02040	.00135	-.08256	-.01527	.00499	.00075	-.00007	.09303
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2464/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.910	-56.154	399.88000	.31028	-.08139	.00177	-.08146	-.03265	.00526	.00065	.00012	.09997
5.049	4.911	400.29000	-.38621	.04659	.00032	-.07472	-.00907	.00820	-.00117	-.00004	.09741
5.001	41.082	400.15000	.34906	-.00547	.00602	-.08310	-.00924	.00692	-.00122	-.00009	.09243
4.993	91.271	400.23000	.23621	-.01697	.00083	-.05009	-.01209	.00483	.00046	-.00001	.09079
5.028	190.550	400.26000	-.27395	.00660	-.00413	-.04539	-.00209	.00577	.00099	.00003	.09063
5.026	290.670	400.22000	-.13556	.00305	-.00018	-.05042	.01172	.00513	.00041	-.00005	.09706
5.018	390.950	400.21000	.29771	-.00291	.00431	-.04537	.01343	.00651	-.00012	.00014	.09914
4.977	591.440	400.21000	-.12541	-.04327	-.00121	-.00651	.00112	.00519	.00027	-.00009	.08780
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING

(RVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2810/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.028	625.270	600.16000	.24092	.00399	.16309	-.05073	-.00371	-.00003	.00113	-.01624	.18736
-20.022	700.310	600.20000	.24523	.00556	.12122	-.03908	-.00390	-.00003	.00085	-.01217	.18766
-20.008	799.630	600.04000	.20366	.00563	.09016	-.03430	-.00418	-.00002	.00019	-.00400	.18773
-20.029	1000.000	600.05000	.26042	.00324	.08823	-.03389	-.00429	-.00002	.00021	-.00362	.18773
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2814/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-15.004	474.570	600.16000	.16200	.00311	.15677	-.050.	00268	-.00023	.00066	-.01559	.18791
-15.014	499.770	600.14000	.24243	.00639	.14779	-.0480.	00375	-.00003	.00099	-.01545	.18784
-15.017	549.740	600.09000	-.34635	.00052	.12675	-.04029	.00397	-.00005	.00089	-.01290	.18763
-15.034	600.070	600.27000	-.00180	-.00022	.11207	-.03905	-.00469	.00014	.00016	-.00817	.18777
-15.058	700.320	600.31000	.15130	.00384	.09119	-.03400	-.00413	-.00000	.00021	-.00437	.18803
-15.038	800.320	600.33000	.57191	.00882	.09148	-.03399	-.00417	.00001	.00021	-.00422	.18768
-14.971	999.050	600.04000	.22743	.00874	.09137	-.03398	-.00424	.00001	.00021	-.00428	.18791
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO 2818/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.017	324.810	600.07000	.00456	.00363	.20884	-.05010	-.00299	-.00017	.00098	-.00889	.18837
-9.975	349.610	600.20000	1.20250	.02129	.18049	-.04944	-.00321	-.00015	.00094	-.01068	.18851
-10.018	399.780	600.18000	1.44030	.02221	.13323	-.04482	-.00395	-.00005	.00077	-.01330	.18832
-10.028	449.810	600.22000	.15753	.00523	.11552	-.03940	-.00458	.00022	.00016	-.01104	.18830
-10.044	500.120	600.22000	-.22302	-.00327	.10516	-.03575	-.00453	.00007	.00021	-.00597	.18832
-10.053	600.280	600.24000	.12075	.00283	.03257	-.03406	-.00440	.00001	.00022	-.00397	.18816
-10.041	700.170	600.22000	-.16107	-.00183	.09302	-.03415	-.00443	.00003	.00022	-.00406	.18802
-9.950	799.790	600.23000	.36961	.01114	.09291	-.03417	-.00427	.00001	.00022	-.00428	.18809
-10.014	999.310	600.14000	-.03936	.00251	.09319	-.03417	-.00430	.00001	.00021	-.00431	.188 9
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(O4RC3) W/ET SEPARATING (RVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2822/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.548	200.400	600.22000	.11180	.00387	.23330	-.03865	-.00386	.00001	.00099	-.00334	.18860
-5.498	249.680	600.18500	.00498	.00304	.19164	-.04543	-.00345	-.00018	.00082	-.00613	.18846
-5.513	299.950	600.25000	-.28322	.00012	.14504	-.04396	-.00377	-.00016	.00072	-.00959	.18809
-5.543	400.140	600.24000	-.09890	-.00178	.10722	-.03711	-.00471	.00010	.00024	-.00650	.18837
-5.548	500.160	600.30000	-.17605	-.00233	.09291	-.03410	-.00456	.00001	.00024	-.00290	.18846
-5.525	599.870	600.16000	.09319	.01535	.09192	-.03391	-.00445	.00001	.00022	-.00279	.18844
-5.485	699.190	600.21000	.00837	.00384	.09221	-.03397	-.00438	-.00003	.00022	-.00294	.18830
-5.508	799.290	600.22000	-.23448	-.00128	.09230	-.03395	-.00427	-.00001	.00022	-.00313	.18871
-5.493	819.070	600.06000	.15936	.00535	.09218	-.03389	-.00437	-.00002	.00022	-.00294	.18857
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC3) W/ET SEPARATING (SVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2810/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.028	625.270	-5.03500	-.00160	.00399	-.11205	-.00921	.01705	.00501	-.00019	.00139
-20.022	700.310	-5.02700	-.00144	.00556	-.15390	.00244	.02112	.00483	-.00020	.00111
-20.008	799.630	-5.02300	-.00140	.00563	-.18519	.00725	.02931	.00455	-.00018	.00045
-20.029	1000.000	-5.02300	-.00139	.00324	-.18607	.00765	.02970	.00445	-.00018	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC3) W/ET SEPARATING (SVK030) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1009.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2814/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.004	474.570	-5.03500	-.00139	.00311	-.12140	-.00841	.01807	.00614	-.00039	.00092
-15.014	499.770	-5.03400	-.00156	.00339	-.12995	-.00912	.01816	.00506	-.00020	.00125
-15.017	549.740	-5.03300	-.00144	.00082	-.15113	.00164	.02072	.00484	-.00021	.00116
-15.034	600.070	-5.03300	-.00160	-.00022	-.16037	.00335	.02044	.00412	-.00003	.00042
-15.058	700.320	-5.02300	-.00141	.00334	-.18557	.00732	.02324	.00467	-.00017	.00047
-15.038	800.320	-5.02300	-.00143	.00282	-.18614	.00730	.02337	.00483	-.00015	.00047
-14.971	999.050	-5.02300	-.00142	.00874	-.18510	.00789	.02930	.00456	-.00016	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2818/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.017	324.810	-5.03300	-.00143	.00353	-.07071	-.00791	.02494	.00587	-.00034	.00125
-9.975	349.610	-5.03240	-.00145	.02129	-.09022	-.00728	.02313	.00565	-.00032	.00121
-10.018	399.780	-5.03000	-.00149	.02221	-.14578	-.00271	.02046	.00490	-.00021	.00103
-10.028	449.810	-5.02300	-.00171	.00323	-.15977	.00274	.02275	.00427	.00005	.00042
-10.044	500.120	-5.02300	-.00151	-.00327	-.17422	.00341	.02764	.00433	-.00009	.00047
-10.053	600.220	-5.02300	-.00141	.00209	-.18670	.00339	.02032	.00446	-.00016	.00048
-10.041	700.170	-5.02300	-.00144	-.00183	-.18205	.00310	.02032	.00445	-.00013	.00049
-9.950	798.780	-5.02300	-.00142	.01114	-.18738	.00313	.02334	.00462	-.00016	.00048
-10.014	999.310	-5.02300	-.00142	.00251	-.18239	.00307	.02355	.00457	-.00015	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2822/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.548	200.400	-5.02040	-.00146	.00387	-.04478	.00332	.03031	.00496	-.00016	.00125
-5.498	249.630	-5.02010	-.00135	.00304	-.07335	-.00347	.02751	.00537	-.00034	.00108
-5.513	299.930	-5.01930	-.00136	.00012	-.13312	-.00184	.02401	.00506	-.00033	.00098
-5.543	400.140	-5.02320	-.00155	-.00178	-.17009	.00483	.02715	.00411	-.00007	.00050
-5.548	500.160	-5.02340	-.00141	-.00233	-.18335	.00793	.03080	.00427	-.00016	.00050
-5.525	559.670	-5.02220	-.00141	.01536	-.18523	.00807	.03087	.00437	-.00016	.00048
-5.485	699.190	-5.02290	-.00137	.00354	-.18578	.00814	.03082	.00447	-.00019	.00048
-5.508	799.290	-5.02310	-.00139	-.00128	-.18334	.00814	.03053	.00458	-.00018	.00049
-5.493	819.070	-5.02270	-.00138	.00535	-.18824	.00812	.03075	.00446	-.00018	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2810/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.028	625.270	600.16000	.24092	.03108	-.03352	218.00000	.00000	.00000	643.95000	.00000	.00000
-20.022	700.310	600.20000	.24623	.03843	-.02723	217.99000	.00000	.00000	643.92000	.00000	.00000
-20.008	799.630	600.04000	.20366	.04037	-.02550	218.17000	.00000	.00000	644.45000	.00000	.00000
-20.029	1000.000	600.08000	.26042	.04845	-.03387	218.14000	.00000	.00000	644.35000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2814/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.004	474.570	600.16000	.16200	.04795	.02793	220.41000	.00000	.00000	651.05000	.00000	.00000
-15.014	499.770	600.14000	.24243	.02465	-.00061	220.07000	.00000	.00000	650.05000	.00000	.00000
-15.017	549.740	600.09000	-.34635	.02663	-.00036	220.18000	.00000	.00000	650.37000	.00000	.00000
-15.034	600.070	600.27000	-.00180	.02824	.00470	220.07000	.00000	.00000	650.05000	.00000	.00000
-15.058	700.320	600.31000	.15130	.02597	-.00114	220.09000	.00000	.00000	650.11000	.00000	.00000
-15.038	800.320	600.33000	.57191	.02898	-.00745	219.97000	.00000	.00000	649.76000	.00000	.00000
-14.971	999.050	600.04000	.22773	.03305	-.01492	219.63000	.00000	.00000	649.41000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2818/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.017	324.810	600.07000	.00456	.00351	-.09345	221.50000	.00000	.00000	654.29000	.00000	.00000
-9.975	349.610	600.20000	1.20230	.01603	-.02303	221.39000	.00000	.00000	653.95000	.00000	.00000
-10.018	399.780	600.18000	1.44030	.01966	.01934	221.08000	.00000	.00000	653.04000	.00000	.00000
-10.028	449.810	600.22000	.15753	.01670	.01698	221.29000	.00000	.00000	653.68000	.00000	.00000
-10.044	500.120	600.22000	-.22902	.01349	.01936	221.38000	.00000	.00000	653.87000	.00000	.00000
-10.053	600.280	600.24000	.12875	.01433	.01754	221.27000	.00000	.00000	653.61000	.00000	.00000
-10.041	700.170	600.28000	-.16107	.01529	.01615	221.83000	.00000	.00000	655.26000	.00000	.00000
-9.950	798.790	600.23000	.36861	.01654	.01443	222.08000	.00000	.00000	656.01000	.00000	.00000
-10.014	399.310	600.14000	-.03996	.01870	.01040	221.76000	.00000	.00000	655.06000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3 W/ET SEPARATING (TVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2822/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.548	200.400	600.22000	.11180	-.01040	-.08489	220 34000	.00000	.00000	650.85000	.00000	.00000
-5.498	249.680	600.18000	.00498	-.02446	-.08956	220 27000	.00000	.00000	650.65000	.00000	.00000
-5.513	299.950	600.25000	-.28322	.01881	.03232	220 63000	.00000	.00000	651.72000	.00000	.00000
-5.543	400.140	600.24000	-.05530	.01193	.02645	220 37000	.00000	.00000	650.93000	.00000	.00000
-5.548	500.160	600.30000	-.17606	.01118	.02740	220 64000	.00000	.00000	651.74000	.00000	.00000
-5.525	599.870	600.16000	.03319	.01210	.02822	220 38000	.00000	.00000	651.01000	.00000	.00000
-5.485	699.190	600.21000	.00837	.01256	.02533	221 08000	.00000	.00000	652.98000	.00000	.00000
-5.508	799.290	600.22000	-.23448	.01420	.02360	221 02000	.00000	.00000	652.85000	.00000	.00000
-5.493	819.070	600.08000	.15986	.01510	.02233	220 61000	.00000	.00000	651.65000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3: W/ET SEPARATING (UVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2810/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.028	625.270	975.05000	975.05000	87.00000	975.05000	974.52000	88.00000	77.00000	-1.77440	99.76800
-20.022	700.310	975.00000	975.00000	87.00000	975.00000	974.52000	88.00000	77.00000	.83725	99.76800
-20.008	799.630	974.85000	974.85000	87.00000	974.85000	974.52000	88.00000	77.00000	4.82350	99.76800
-20.029	1000.000	974.70000	974.70000	87.00000	974.70000	974.52000	88.00000	77.00000	10.12500	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (UVK030) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2814/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.004	474.570	975.73000	975.73000	84.00000	975.730 10	975.46000	87.00000	78.00000	-6.83500	99.76800
-15.014	499.770	975.69000	975.69000	84.00000	975.690 10	975.46000	87.00000	78.00000	-6.57740	99.76800
-15.017	549.740	975.69000	975.69000	84.00000	975.690 10	975.46000	87.00000	78.00000	-4.80570	99.76800
-15.034	600.070	975.65000	975.65000	84.00000	975.650 10	975.46000	87.00000	78.00000	-2.63500	99.76800
-15.058	700.320	975.74000	975.74000	84.00000	975.740 10	975.46000	87.00000	78.00000	-1.49250	99.76800
-15.038	800.350	975.70000	975.70000	84.00000	975.700 10	975.46000	87.00000	78.00000	-.76973	99.76800
-14.971	999.050	975.65000	975.65000	84.00000	975.650 10	975.46000	87.00000	78.00000	.77617	99.76800
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

RUN NO. 2818/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.017	324.810	975.75000	975.75000	84.00000	975.750 10	975.73000	86.00000	78.00000	2.49660	99.76800
-9.975	349.610	975.73000	975.73000	84.00000	975.730 10	975.73000	86.00000	78.00000	-3.80860	99.76800
-10.018	399.780	975.80000	975.80000	84.00000	975.800 10	975.73000	86.00000	78.00000	-6.50760	99.76800
-10.028	449.810	975.77000	975.77000	84.00000	975.770 10	975.73000	86.00000	78.00000	-5.36710	99.76800
-10.044	500.120	975.60000	975.60000	84.00000	975.600 10	975.73000	86.00000	78.00000	-4.09060	99.76800
-10.053	600.230	975.70000	975.70000	84.00000	975.700 10	975.73000	86.00000	78.00000	-3.47100	99.76800
-10.041	700.170	975.74000	975.74000	84.00000	975.740 10	975.73000	86.00000	78.00000	-2.66910	99.76800
-9.950	793.790	975.89000	975.89000	84.00000	975.890 10	975.73000	86.00000	78.00000	-1.80760	99.76800
-10.014	999.310	975.92000	975.92000	84.00000	975.920 10	975.73000	86.00000	78.00000	-.74888	99.76800
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

RUN NO. 2822/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.548	200.400	975.89000	975.89000	83.00000	975.890 10	975.46999	85.00000	78.00000	3.25330	99.64200
-5.498	249.680	975.59000	975.59000	83.00000	975.590 10	975.46999	85.00000	78.00000	-.08544	99.64200
-5.513	299.950	975.76000	975.76000	83.00000	975.760 10	975.46999	85.00000	78.00000	-4.34020	99.64200
-5.543	400.140	975.54000	975.54000	83.00000	975.540 10	975.46999	85.00000	78.00000	-4.32270	99.64200
-5.548	500.160	975.78000	975.78000	83.00000	975.780 10	975.46999	85.00000	78.00000	-3.78520	99.64200
-5.525	599.870	975.65000	975.65000	83.00000	975.650 10	975.46999	85.00000	78.00000	-3.24280	99.64200
-5.485	699.190	975.72000	975.72000	83.00000	975.720 10	975.46999	85.00000	78.00000	-2.59190	99.64200
-5.508	799.290	975.53000	975.53000	83.00000	975.530 10	975.46999	85.00000	78.00000	-1.82000	99.64200
-5.493	819.070	975.69000	975.69000	83.00000	975.690 10	975.46999	85.00000	78.00000	-1.11640	99.64200
	GRADIENT	.00000	.00000	.00000	.00010	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARAT:NG FROM ORB (04RC3) (AVK030) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2810/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.028	625.270	600.16000	.24092	-25.06300	.00238	-.50793	-.05717	.02401	.00011	.00043	.12531
-20.022	700.310	600.20000	.24623	-25.04900	.00412	-.52509	-.04316	.02588	-.00090	.00110	.13910
-20.008	799.630	600.04000	.20366	-25.03100	.00424	-.52688	-.03624	.02441	-.00071	.00072	.13180
-20.029	1000.000	600.06000	.26042	-25.05200	.00186	-.58356	.02028	.02386	-.00246	.00080	.16955
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2814/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.004	474.570	600.16000	.16200	-20.03900	.00171	-.41014	-.04465	.02135	-.00110	.00040	.12193
-15.014	499.770	600.14000	.24243	-20.04800	.00483	-.39506	-.05034	.02184	-.00108	.00027	.11507
-15.017	549.740	600.09000	-.34635	-20.04500	-.00092	-.39265	-.04709	.01717	.00014	.00049	.12332
-15.034	600.070	600.27000	-.00180	-20.06900	-.00182	-.39544	-.04314	.01639	.00112	.00040	.11815
-15.058	700.320	600.31000	.15130	-20.08100	.00243	-.39973	-.03197	.01815	-.00024	.00037	.12182
-15.038	800.320	600.33000	.57191	-20.06100	.00739	-.42095	-.00856	.01760	-.00075	.00029	.13471
-14.971	999.050	600.04000	.22743	-19.98400	.00732	-.40011	-.00119	.01621	-.00141	.00042	.14993
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2818/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.017	324.810	600.07000	.00456	-15.04900	.00220	-.34954	-.02720	.01077	.00139	.00027	.12569
-9.975	349.610	600.20000	1.20260	-15.00700	.01594	-.33920	-.02829	.01103	.00165	.00027	.12425
-10.018	399.780	600.18000	1.44030	-15.04600	.02072	-.28408	-.04631	.01017	.00254	.00025	.10870
-10.028	449.810	600.22000	.15753	-15.05400	.00353	-.27922	-.04737	.01067	.00212	.00025	.10652
-10.044	500.120	600.22000	-.22902	-15.06900	-.00478	-.28054	-.04142	.01068	.00183	.00009	.10562
-10.053	600.280	600.24000	.12875	-15.07600	.00148	-.28746	-.02769	.01351	.00047	.00012	.11096
-10.041	700.170	600.28000	-.16107	-15.06400	-.00327	-.30176	-.00815	.01313	-.00026	.00006	.12231
-9.950	798.790	600.23000	.36861	-14.97300	.00972	-.30405	.00334	.01371	-.00096	.00011	.13554
-10.014	999.310	600.14000	-.03956	-15.03700	.00109	-.22097	-.03901	.01045	.00113	-.00002	.10881
	GRADIENT	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC3) (AVK030) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2822/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.548	200.400	600.22000	.11180	-10.56900	.00241	-.26238	-.03067	.00986	.00115	.00014	.11560
-5.498	249.680	600.18000	.00498	-10.52700	.00168	-.26547	-.01897	.00933	.00128	-.00005	.11771
-5.513	299.550	600.25000	-.28322	-10.54200	-.00124	-.23285	-.03130	.00899	.00194	.00003	.10788
-5.543	400.140	600.24000	-.09390	-10.56900	-.00333	-.19326	-.03688	.00643	.00264	.00006	.09928
-5.548	500.160	600.30000	-.17686	-10.57100	-.00374	-.20086	-.02254	.01026	.00084	-.00009	.10526
-5.525	599.870	600.16000	.98819	-10.54800	.01395	-.20778	-.00690	.01091	-.00001	-.00010	.11283
-5.485	699.190	600.21000	.00637	-10.50800	.00246	-.20537	.00103	.01146	-.00050	-.00007	.12201
-5.508	799.290	600.22000	-.23448	-10.53100	-.00267	-.17079	-.01503	.00981	.00039	-.00009	.11217
-5.493	819.070	600.06000	.15986	-10.51600	.00396	-.16209	-.02015	.00910	.00071	-.00013	.10681
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4FC1) W/ET SEPARATING (RVK031) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2751/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.008	624.910	-.09408	.07284	.00255	.60207	-.01378	-.00106	.00001	.00311	-.01061	.23337
-19.952	698.380	-.15647	.45583	.01103	.55652	-.03115	.00257	-.00060	.00276	-.01578	.23292
-19.948	798.410	-.31206	.07530	.00634	.47333	-.03163	-.00004	-.00031	.00169	-.02502	.23284
-20.014	999.390	-.10483	-.44813	-.00440	.24059	.00269	-.00190	-.00006	.00058	-.02147	.23295
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORD:ITER(04FC1) W/ET SEPARATING (RVK031) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLCR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.001	474.560	.07846	.52278	.00863	.52926	-.00956	-.00035	-.00045	.00349	-.01096	.23328
-15.016	499.410	.06959	-.10831	.00270	.49893	-.01476	-.00064	-.00030	.00336	-.01296	.23371
-14.980	548.790	-.02052	.42022	.00766	.47660	-.02677	.00026	-.00042	.00295	-.01600	.23356
-14.979	598.900	-.00871	.06345	.00270	.44251	-.03063	.00091	-.00059	.00214	-.02253	.23333
-14.974	698.660	-.10090	-.04411	.00370	.33082	-.01955	-.00063	-.00019	.00004	-.03071	.23371
-15.081	800.230	.15747	.02397	-.00253	.24652	.00078	-.00130	-.00014	.00016	-.02260	.23350
-15.067	999.950	.33138	.06529	.00076	.22827	.00488	-.00167	-.00013	.00060	-.02000	.23327
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.509	349.580	.06343	-.43120	-.00543	.44326	.00045	-.00063	-.00045	.00247	-.01454	.23384
-10.507	399.140	-.00835	.73328	.01297	.39371	-.00627	-.00092	-.00038	.00200	-.01871	.23363
-10.466	448.980	-.01379	-.28312	-.00201	.36106	-.00938	-.00132	-.00017	.00163	-.02276	.23422
-10.486	498.990	.01027	.12355	.00413	.34361	-.01259	.00049	-.00052	-.00050	-.02208	.23371
-10.483	598.680	-.04835	.06377	.00224	.27831	-.00736	-.00107	-.00020	.00054	-.02520	.23424
-10.568	699.970	.14330	1.12750	.01516	.24196	.00182	-.00161	-.00014	.00044	-.02217	.23442
-10.550	799.810	.13815	-.11426	-.00070	.23003	.00499	-.00185	-.00011	.00060	-.02025	.23407
-10.510	999.230	.15360	-.15425	-.00026	.22973	.00493	-.00182	-.00013	.00059	-.02007	.23398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.004	166.590	-.02762	-.35417	-.00169	.34068	.02381	-.01105	-.00020	.00073	.00759	.23288
-4.999	191.470	.02220	.09162	.00438	.35145	.02265	-.01207	-.00091	.00028	.00375	.23294
-4.934	241.180	.03376	-.78850	-.00393	.33554	.01519	-.01112	-.00011	-.00018	-.00197	.23366
-4.975	290.930	-.03415	-.05155	.00121	.30582	.00785	-.01180	-.00005	-.00034	-.00765	.23387
-4.963	390.850	-.11182	-.09353	.00148	.28355	.00463	-.01228	.00010	-.00021	-.00567	.23381
-4.973	490.860	.02236	.12996	.00605	.28321	-.00034	-.01155	-.00012	-.00000	-.00332	.23296
-5.037	591.780	.07386	.11080	.00234	.24351	.00192	-.01137	-.00007	-.00012	-.00674	.23226
-5.017	691.710	.17540	.05293	.00274	.23703	.00356	-.01167	-.00014	.00029	-.00481	.23235
-4.995	791.360	.13977	-.22823	-.00142	.23511	.00454	-.01158	-.00018	.00034	-.00433	.23289
-4.998	991.260	.14568	-.03477	.00159	.23473	.00452	-.01149	-.00021	.00035	-.00413	.23319
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (RVK031) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2394/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-.047	13.083	-.00468	.15744	.00261	.21135	.00157	-.01079	-.00026	.00004	.00118	.23307
-.027	42.441	.07729	.16781	.00257	.22606	.01051	-.01108	.00027	.00036	.00715	.23287
-.016	92.116	.10001	-.14985	.00094	.26722	.01672	-.01204	.00004	-.00019	.00993	.23335
.010	141.300	.07161	-.04087	.00100	.28370	.01685	-.01125	-.00039	-.00016	.00013	.23348
.017	190.870	-.01247	.00038	.00421	.27230	.01683	-.01117	.00003	-.00043	-.00385	.23339
.029	290.590	.11101	.19237	.00517	.28410	.01035	-.01201	.00001	-.00020	-.00392	.23244
.018	391.030	.04803	.04449	.00474	.27420	.00349	-.01285	.00011	.00002	-.00139	.23315
-.030	491.610	.08740	-.16034	-.00078	.23027	.00120	-.01152	-.00009	.00005	-.00454	.23307
-.018	591.440	.17534	-.07938	.00104	.23055	.00935	-.01180	-.00009	.00018	-.00465	.23325
-.005	791.310	.10787	-.20121	-.00055	.23216	.00448	-.01159	-.00019	.00034	-.00319	.23364
-.009	871.290	.20393	.08772	.00379	.23173	.00451	-.01178	-.00019	.00033	-.00333	.23329
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2400/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
5.028	-59.538	1.16590	-.03857	.00386	.19303	-.00426	-.01236	-.00016	.00017	-.01047	.23373
4.942	8.215	-.04731	-.08597	-.00110	.22512	.01058	-.01150	-.00004	.00057	.00520	.23342
4.995	41.697	.06557	-.32613	-.00567	.24158	.01352	-.01333	.00004	.00012	.00668	.23370
5.010	91.124	.05555	-.02030	.00202	.25732	.01550	-.01185	-.00035	-.00013	-.00143	.23353
5.041	190.310	.16790	.05717	.00534	.25399	.01466	-.01238	-.00008	-.00003	-.00515	.23359
5.008	290.650	.03027	.07834	.00303	.26374	.00931	-.01325	.00010	.00025	-.00363	.23356
4.938	391.510	.03078	.20350	.00263	.26375	.00212	-.01197	-.00016	.00009	-.00302	.23353
4.985	531.240	.15347	.24223	.00845	.24173	.00333	-.01219	-.00015	.00022	-.00493	.23341
	GRADIENT	-.00576	-.00802	-.00013	.02740	.00129	-.00140	-.00000	.00007	.00063	.02841

V41B-09A (IA22),ORBITER(04R;1) W/ET SEPARATING (SVK031) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2751/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.008	624.910	.02000	-.00106	.00255	.2672	-.00278	.03355	.00636	-.00093	.00316
-19.952	698.380	.00100	-.00071	.01103	.2213	-.02014	.02842	.00999	-.00154	.00281
-19.948	798.410	-.00300	-.00039	.00634	.1383	-.02083	.01916	.00738	-.00126	.00173
-20.014	939.350	.01700	-.00083	-.00440	-.0939	.01368	.02264	.00551	-.00101	.00062
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.001	474.560	.02000	-.00053	.00883	.1972	.00125	.03283	.00701	-.00139	.00353
-15.016	499.410	.01300	-.00076	.00270	.1659	-.00395	.03083	.00672	-.00124	.00341
-14.980	548.790	.00200	-.00092	.00766	.1448	-.01597	.02775	.00761	-.00135	.00300
-14.979	598.900	-.00300	-.00070	.00270	.1108	-.01973	.02121	.00826	-.00152	.00219
-15.081	800.230	.01600	-.00077	-.00253	-.0007	-.00906	.01301	.00672	-.00113	.00008
-15.067	999.950	.01900	-.00072	.00076	-.0848	.01167	.02111	.00605	-.00108	.00021
	GRADIENT	.00000	.00000	.00000	-.1025	.01574	.02362	.00536	-.00107	.00065
					.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.509	349.580	.02500	-.00041	-.00543	.1110	.01137	.02928	.00673	-.00139	.00251
-10.507	399.140	.01700	-.00060	.01287	.0892	.00465	.02514	.00645	-.00130	.00205
-10.486	448.980	.01200	-.00085	-.00201	.0298	.00152	.02095	.00602	-.00111	.00168
-10.486	498.990	.00900	-.00055	.00413	.0114	-.00167	.02172	.00785	-.00145	-.00045
-10.483	598.680	.01000	-.00082	.00224	-.0535	.00355	.01858	.00628	-.00113	.00058
-10.568	699.970	.01600	-.00076	.01516	-.0906	.01275	.02170	.00577	-.00107	.00048
-10.550	799.810	.01900	-.00075	-.00070	-.1023	.01581	.02358	.00550	-.00104	.00064
-10.510	999.230	.02000	-.00072	-.00026	-.1025	.01585	.02376	.00554	-.00107	.00064
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK031) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2388/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.004	166.590	.04150	-.00019	-.00169	.00964	.03469	.05125	-.00372	-.00114	.00077
-4.999	191.470	.04090	.00048	.00488	.02044	.03352	.04740	-.00474	-.00174	.00033
-4.994	241.180	.03350	-.00041	-.00693	.00855	.02607	.04170	-.00379	-.00104	-.00014
-4.975	290.930	.02530	-.00057	.00121	-.02498	.01872	.03597	-.00447	-.00098	-.00030
-4.963	390.850	.02150	-.00078	.00148	-.04251	.01551	.03799	-.00495	-.00083	-.00016
-4.973	490.860	.01690	-.00062	.00805	-.04750	.01052	.04029	-.00422	-.00105	.00004
-5.037	591.780	.01710	-.00065	.00234	-.08712	.01279	.03385	-.00405	-.00100	-.00008
-5.017	691.710	.01690	-.00054	.00274	-.09373	.01483	.03031	-.00434	-.00107	.00034
-4.995	791.350	.01500	-.00049	-.00142	-.08332	.01540	.03328	-.00426	-.00112	.00039
-4.998	991.260	.01900	-.00046	.00159	-.05354	.01537	.03943	-.00417	-.00114	.00039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2394/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.047	13.083	.01524	-.00046	.00261	-.11652	.01234	.04440	-.00353	-.00119	.00009
-.027	42.441	.02412	-.00092	.00257	-.10171	.02129	.05038	-.00382	-.00065	.00040
-.016	92.116	.03174	-.00056	.00094	-.05056	.02749	.05316	-.00477	-.00089	-.00014
.010	141.300	.03446	-.00007	.00100	-.03934	.02833	.04339	-.00398	-.00130	-.00012
.017	190.870	.03225	-.00056	.00421	-.05573	.02774	.03981	-.00391	-.00089	-.00038
.029	290.590	.02581	-.00060	.00517	-.06391	.02114	.03934	-.00474	-.00092	-.00015
.018	391.050	.01599	-.00080	.00474	-.05346	.01427	.04187	-.00498	-.00082	.00006
-.030	491.610	.01676	-.00064	-.00078	-.07765	.01198	.03971	-.00425	-.00100	.00009
-.018	591.440	.01772	-.00061	.00104	-.08931	.01362	.03859	-.00453	-.00101	.00022
-.005	791.310	.01891	-.00048	-.00065	-.09540	.01524	.04001	-.00433	-.00111	.00038
-.009	871.290	.01691	-.00048	.00379	-.09598	.01528	.03939	-.00452	-.00111	.00037
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2400/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.028	-59.538	.00920	-.00062	.00386	-.13299	.00655	.03292	-.00527	-.00109	.00021
4.942	8.215	.02400	-.00057	-.00110	-.10424	.02140	.04854	-.00420	-.00097	.00061
4.995	41.697	.02750	-.00057	-.00367	-.09746	.02434	.05009	-.00604	-.00093	.00017
5.010	91.124	.02280	-.00010	.00202	-.07149	.02330	.04193	-.00455	-.00128	-.00008
5.041	190.310	.02310	-.00045	.00334	-.07509	.02547	.03225	-.00509	-.00100	.00001
5.008	290.850	.02400	-.00071	.00503	-.06238	.01912	.03978	-.00597	-.00092	.00030
4.968	391.510	.01650	-.00053	.00263	-.05918	.01290	.04036	-.00468	-.00108	.00012
4.985	531.240	.01870	-.00052	.00645	-.08739	.01467	.03847	-.00490	-.00108	.00027
	GRADIENT	.00292	-.00007	-.00013	-.01269	.00260	.00592	-.00051	-.00012	.00007

V41B-D9A (IA22),ORBITER 04RC1) W/ET SEPARATING (TVK031) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2751/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.008	624.910	-.09408	.07264	-.01269	-.1684[illegible]	443.21000	.00000	.00000	663.31000	.00000	.00000
-19.952	698.390	-.15647	.45583	-.04278	-.1991[illegible]	443.64000	.00000	.00000	663.94000	.00000	.00000
-19.948	798.410	-.31206	.07530	.04396	-.0778[illegible]	443.41000	.00000	.00000	663.60000	.00000	.00000
-20.014	999.390	-.10483	-.44813	.05010	-.0626[illegible]	442.65000	.00000	.00000	662.48000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.001	474.560	.07846	.52278	-.11851	-.3376[illegible]	439.50000	.00000	.00000	657.75000	.00000	.00000
-15.016	499.410	.03959	-.10831	-.10147	-.3311[illegible]	439.52000	.00000	.00000	657.77000	.00000	.00000
-14.990	548.790	-.02052	.42022	.07824	-.0847[illegible]	439.11000	.00000	.00000	657.17000	.00000	.00000
-14.979	599.500	-.00871	.05345	.26035	.1707[illegible]	439.05000	.00000	.00000	657.14000	.00000	.00000
-14.974	698.660	-.10090	-.04411	.04511	-.1140[illegible]	438.87000	.00000	.00000	656.80000	.00000	.00000
-15.081	800.230	.15747	.02397	.04837	-.0697[illegible]	438.62000	.00000	.00000	656.52000	.00000	.00000
-15.067	999.950	.33138	.06529	.04910	-.0570[illegible]	437.83000	.00000	.00000	655.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.509	349.590	.06343	-.43120	-.01841	-.2360[illegible]	439.77000	.00000	.00000	658.16000	.00000	.00000
-10.507	399.140	-.00835	.73326	.10026	-.0513[illegible]	440.10000	.00000	.00000	658.65000	.00000	.00000
-10.486	448.990	-.01079	-.28812	.05527	-.0978[illegible]	438.73000	.00000	.00000	656.59000	.00000	.00000
-10.486	498.990	.01027	.12855	.02709	-.1228[illegible]	439.65000	.00000	.00000	657.98000	.00000	.00000
-10.483	598.680	-.04835	.06377	.04504	-.0555[illegible]	439.34000	.00000	.00000	657.51000	.00000	.00000
-10.568	699.970	.14330	1.12750	.04725	-.0480[illegible]	440.31000	.00000	.00000	658.97000	.00000	.00000
-10.550	799.810	.13815	-.11426	.04579	-.0443[illegible]	439.98000	.00000	.00000	658.47000	.00000	.00000
-10.510	999.230	.15330	-.15425	.04131	-.0352[illegible]	439.62000	.00000	.00000	658.32000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2388/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.004	166.590	-.02762	-.35417	-.11094	-.27301	438.21000	.00000	.00000	655.82000	.00000	.00000
-4.999	191.470	.02820	.09162	.07315	-.00372	438.16000	.00000	.00000	655.75000	.00000	.00000
-4.994	241.180	.03876	-.78550	.01477	-.07700	438.28000	.00000	.00000	655.89000	.00000	.00000
-4.975	290.930	-.03415	-.05155	.02560	-.05593	437.68000	.00000	.00000	655.30000	.00000	.00000
-4.963	390.850	-.11182	-.09353	.02637	-.05225	438.22000	.00000	.00000	655.83000	.00000	.00000
-4.973	490.860	.02236	.12985	.01984	-.06236	437.76000	.00000	.00000	655.15000	.00000	.00000
-5.037	591.760	.07366	.11080	.04156	-.01620	437.66600	.00000	.00000	654.99000	.00000	.00000
-5.017	691.710	.17540	.05293	.03708	-.02731	437.82000	.00000	.00000	655.23000	.00000	.00000
-4.995	791.380	.13977	-.22823	.03498	-.02583	437.66000	.00000	.00000	655.00000	.00000	.00000
-4.998	991.280	.14539	-.03477	.03279	-.02442	437.17000	.00000	.00000	654.26000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2394/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.047	13.083	-.00468	.15744	.00289	-.04601	433.99000	.00000	.00000	649.50000	.00000	.00000
-.027	42.441	.07729	.16781	.03072	-.00234	433.82000	.00000	.00000	649.33000	.00000	.00000
-.016	92.116	.10001	-.14955	.02310	-.00651	433.90000	.00000	.00000	649.37000	.00000	.00000
.010	141.300	.07161	-.04037	.01073	-.02167	434.07000	.00000	.00000	649.63000	.00000	.00000
.017	190.870	-.01247	.09036	.02359	.00638	434.02000	.00000	.00000	649.85000	.00000	.00000
.029	290.590	.11101	.19237	.01546	-.01142	434.19000	.00000	.00000	649.81000	.00000	.00000
.018	391.050	.04208	.04449	.00698	-.03397	434.25000	.00000	.00000	649.85000	.00000	.00000
-.030	491.610	.05740	-.16264	.01939	-.00666	434.06000	.00000	.00000	649.61000	.00000	.00000
-.018	591.440	.17534	-.07968	.02314	-.00464	433.92000	.00000	.00000	649.49000	.00000	.00000
-.005	791.310	.10787	-.20121	.02262	-.00801	433.59000	.00000	.00000	648.91000	.00000	.00000
-.009	871.290	.20593	.08772	.02197	-.00778	433.79000	.00000	.00000	649.20000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2400/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.028	-59.538	1.15690	-.03857	.01757	.00143	435.53000	.00000	.00000	651.81000	.00000	.00000
4.942	8.215	-.04731	-.06587	.01983	-.01053	435.93000	.00000	.00000	652.48000	.00000	.00000
4.995	41.697	.06357	-.38613	.01928	-.01205	435.54000	.00000	.00000	651.83000	.00000	.00000
5.010	91.124	.05355	-.02030	.02243	.00517	435.24000	.00000	.00000	651.37000	.00000	.00000
5.041	190.310	.16790	.05717	.01805	.00103	435.80000	.00000	.00000	651.92000	.00000	.00000
5.008	290.650	.09327	.07834	.00793	-.01011	435.65000	.00000	.00000	651.93000	.00000	.00000
4.968	391.510	.02878	.28380	.00175	-.02235	435.40000	.00000	.00000	651.61000	.00000	.00000
4.985	531.240	.15347	.24223	.01861	.00305	435.68000	.00000	.00000	652.00000	.00000	.00000
	GRADIENT	-.00576	-.00802	.00241	-.00128	53.06758	.00000	.00000	79.42061	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (X031) (20 MAR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2751/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.008	624.910	977.45000	977.45000	86.00000	977.45000	977.25999	71.00000	76.00000	30.74000	99.64200
-19.952	698.380	977.40000	977.40000	86.00000	977.40000	977.25999	71.00000	76.00000	34.54500	99.64200
-19.948	798.410	977.39000	977.39000	86.00000	977.39000	977.25999	71.00000	76.00000	41.25900	99.64200
-20.014	999.390	977.69000	977.69000	86.00000	977.69000	977.25999	71.00000	76.00000	24.93700	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.001	474.560	978.97000	978.97000	85.00000	978.97000	978.78999	22.00000	76.00000	32.36400	99.64200
-15.016	499.410	979.00000	979.00000	85.00000	979.00000	978.78999	22.00000	76.00000	31.63800	99.64200
-14.980	548.790	979.07000	979.07000	85.00000	979.07000	978.78999	22.00000	76.00000	30.56800	99.64200
-14.979	599.900	979.02000	979.02000	85.00000	979.02000	978.78999	22.00000	76.00000	30.39200	99.64200
-14.974	693.650	979.01000	979.01000	85.00000	979.01000	978.78999	22.00000	76.00000	27.85300	99.64200
-15.081	800.230	979.07000	979.07000	85.00000	979.07000	978.78999	22.00000	76.00000	24.12100	99.64200
-15.067	999.950	979.11000	979.11000	85.00000	979.11000	978.78999	22.00000	76.00000	18.02000	99.64200
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.509	349.580	980.06000	980.06000	84.00000	980.06000	979.87000	5.00000	77.00000	30.84100	99.64200
-10.507	399.140	980.30000	980.30000	84.00000	980.30000	979.87000	5.00000	77.00000	29.14800	99.64200
-10.486	448.980	980.15000	980.15000	84.00000	980.15000	979.87000	5.00000	77.00000	27.17300	99.64200
-10.486	498.990	980.28000	980.28000	84.00000	980.28000	979.87000	5.00000	77.00000	23.51600	99.64200
-10.483	598.680	980.06000	980.06000	84.00000	980.06000	979.87000	5.00000	77.00000	19.35500	99.64200
-10.568	699.970	980.29000	980.29000	84.00000	980.29000	979.87000	5.00000	77.00000	15.24000	99.64200
-10.550	799.810	980.52000	980.52000	84.00000	980.52000	979.87000	5.00000	77.00000	12.46600	99.64200
-10.510	999.230	980.30000	980.30000	84.00000	980.30000	979.87000	5.00000	77.00000	9.33420	99.64200
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1200.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2388/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSS	DLPBAL	TB1	TB2	DT	T
-5.004	168.590	978.03000	978.03000	85.00000	978.03000	977.82000	70.00000	76.00000	16.83700	99.76800
-4.999	191.470	977.93000	977.93000	85.00000	977.93000	977.82000	70.00000	76.00000	21.17100	99.76800
-4.994	241.180	978.14000	978.14000	85.00000	978.14000	977.82000	70.00000	76.00000	18.12200	99.76800
-4.975	290.930	977.74000	977.74000	85.00000	977.74000	977.82000	70.00000	76.00000	15.34700	99.76800
-4.963	390.650	978.05000	978.05000	85.00000	978.05000	977.82000	70.00000	76.00000	14.08100	99.76800
-4.973	490.860	977.52000	977.52000	85.00000	977.52000	977.82000	70.00000	76.00000	11.41000	99.76800
-5.037	591.780	977.28000	977.28000	85.00000	977.28000	977.82000	70.00000	76.00000	9.01620	99.76800
-5.017	691.710	977.16000	977.16000	85.00000	977.16000	977.82000	70.00000	76.00000	6.05410	99.76800
-4.995	791.360	977.30000	977.30000	85.00000	977.30000	977.82000	70.00000	76.00000	3.49420	99.76800
-4.998	991.260	977.16000	977.16000	85.00000	977.16000	977.82000	70.00000	76.00000	.81564	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2394/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSS	DLPBAL	TB1	TB2	DT	T
-.047	13.083	976.29000	976.29000	83.00000	976.29000	976.07999	68.00000	76.00000	-5.89970	99.76800
-.027	42.441	976.04000	976.04000	83.00000	976.04000	976.07999	68.00000	76.00000	-6.59920	99.76800
-.016	92.116	976.10000	976.10000	83.00000	976.10000	976.07999	68.00000	76.00000	-5.88670	99.76800
.010	141.300	976.83000	976.83000	83.00000	976.83000	976.07999	68.00000	76.00000	-5.69320	99.76800
.017	190.870	976.81000	976.81000	83.00000	976.81000	976.07999	69.00000	76.00000	-5.42850	99.76800
.029	290.590	976.75000	976.75000	83.00000	976.75000	976.07999	68.00000	76.00000	-4.83390	99.76800
.018	391.050	976.82000	976.82000	83.00000	976.82000	976.07999	68.00000	76.00000	-5.56140	99.76800
-.030	491.610	976.46000	976.46000	83.00000	976.46000	976.07999	68.00000	76.00000	-4.84280	99.76800
-.018	591.440	976.26000	976.26000	83.00000	976.26000	976.07999	68.00000	76.00000	-4.35760	99.76800
-.005	791.310	975.83000	975.83000	83.00000	975.83000	976.07999	68.00000	76.00000	-5.05770	99.76800
-.009	871.290	975.84000	975.84000	83.00000	975.84000	976.07999	68.00000	76.00000	-5.91740	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2400/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSS	DLPBAL	TB1	TB2	DT	T
5.028	-59.538	974.46000	974.46000	81.00000	974.46000	974.25000	66.00000	74.00000	-7.70440	99.76800
4.942	8.215	974.50000	974.50000	81.00000	974.50000	974.25000	66.00000	74.00000	-8.88890	99.76800
4.995	41.697	974.49000	974.49000	81.00000	974.49000	974.25000	66.00000	74.00000	-10.37900	99.76800
5.010	91.124	974.29000	974.29000	81.00000	974.29000	974.25000	66.00000	74.00000	-10.08400	99.76800
5.041	190.310	974.14000	974.14000	81.00000	974.14000	974.25000	66.00000	74.00000	-9.80310	99.76800
5.008	290.650	974.24000	974.24000	81.00000	974.24000	974.25000	66.00000	74.00000	-9.55790	99.76800
4.968	391.510	974.17000	974.17000	81.00000	974.17000	974.25000	66.00000	74.00000	-9.07340	99.76800
4.985	531.240	974.26000	974.26000	81.00000	974.26000	974.25000	66.00000	74.00000	-8.00230	99.76800
	GRADIENT	118.61725	118.61725	9.85941	118.61725	118.58682	8.03359	9.00736	-1.00197	12.14387

V41B-09A (IA22),ET SEPAR/TING FROM ORB (04RC1) (AVK031) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DSETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2751/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.008	624.910	-.05408	.07284	-19.92000	.00149	-.43220	-.00872	.01631	.00003	.00054	.11233
-19.952	688.330	-.15047	.48033	-19.93100	.01032	-.40972	.01240	.01921	-.00187	.00058	.13901
-19.948	793.410	-.31206	.07530	-19.93100	.00535	-.40577	.04201	.02089	-.00367	.00103	.16998
-20.014	988.390	-.10403	-.44813	-19.89700	-.00322	-.32977	-.03758	.01276	.00079	.00009	.11890
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.001	474.550	.07045	.52278	-14.93100	.00910	-.33018	-.00289	.01120	.00086	.00034	.10477
-15.016	499.410	.05059	-.10031	-15.00300	.00194	-.31279	-.01601	.01293	-.00006	.00038	.10756
-14.980	548.790	-.02052	.42022	-14.97800	.00804	-.32224	-.00441	.01409	-.00051	.00031	.11523
-14.979	598.900	-.00371	.05345	-14.93200	.00200	-.33023	.01047	.01438	-.00093	.00024	.12746
-14.974	698.650	-.10090	-.04411	-14.97300	.00271	-.34932	.03021	.01566	-.00243	.00059	.14954
-15.081	800.230	.15747	.02397	-15.06300	-.00330	-.27780	-.00638	.01140	-.00004	.00026	.12412
-15.067	899.950	.33138	.00339	-15.04000	.00004	-.21008	-.03037	.00532	.00104	.00000	.10751
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.509	349.580	.06343	-.43120	-10.48400	-.00584	-.24972	-.00509	.00992	-.00013	.00011	.10458
-10.507	399.140	-.00035	.73326	-10.49000	.01227	-.22978	-.01007	.01093	-.00024	.00014	.10053
-10.486	448.930	-.01378	-.20312	-10.47400	-.00235	-.23309	-.00068	.01109	-.00028	.00014	.10554
-10.486	493.990	.01027	.12055	-10.47700	.00358	-.24443	-.00035	.01219	-.00067	.00006	.11499
-10.483	598.690	-.04833	.06377	-10.47300	.00141	-.18304	-.00306	.00949	.00027	.00001	.10956
-10.558	699.970	.14330	1.12750	-10.53200	.01440	-.14026	-.03140	.00805	.00119	-.00019	.09753
-10.550	799.810	.13315	-.11426	-10.53100	-.00145	-.13976	-.03090	.00784	.00129	-.00018	.09304
-10.510	999.230	.15330	-.15425	-10.49000	-.00098	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (1A22),ET SEPARATING FROM ORB (04RC1) (AVK031) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2388/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.004	166.590	-.02762	-.35417	-4.96260	-.00189	-.16528	-.00428	.00352	-.00025	.00019	.09066
-4.999	191.470	.02820	.09162	-4.95840	.00535	-.16562	-.00066	.00406	-.00064	.00038	.09600
-4.994	241.180	.03876	-.78950	-4.95090	-.00935	-.14747	-.00240	.00417	-.00060	.00024	.09264
-4.975	290.930	-.03415	-.05155	-4.94930	.00064	-.14450	.00451	.00380	-.00023	.00021	.09525
-4.953	390.850	-.11182	-.09353	-4.94130	.00070	-.14725	.01731	.00388	-.00030	.00017	.10556
-4.973	490.850	.02236	.12936	-4.95590	.00544	-.13365	.02316	.00567	-.00095	.00023	.11440
-5.037	591.760	.07256	.11080	-5.01970	.00189	-.08581	-.00307	.00346	.00026	.00015	.09539
-5.017	691.710	.17540	.05293	-4.99850	.00220	-.06368	-.01569	.00289	.00053	-.00001	.08909
-4.995	791.360	.13977	-.22623	-4.97620	-.00191	-.06286	-.01527	.00275	.00058	-.00002	.09051
-4.998	991.260	.14568	-.03477	-4.97920	.00113	-.06273	-.01506	.00276	.00046	-.00002	.09370
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2394/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.047	13.083	-.00468	.15744	-.03161	.00215	-.01830	-.00835	.00102	.00078	.00017	.08164
-.027	42.441	.07729	.16781	-.00243	.00165	-.04025	-.01104	-.00469	.00177	.00032	.08248
-.016	92.116	.10001	-.14985	.01594	.00038	-.06851	-.00484	.00275	.00053	.00016	.08415
.010	141.300	.07161	-.04087	.04396	.00093	-.07755	.00479	.00327	.00043	.00016	.08807
.017	190.870	-.01247	.09035	.04956	.00356	-.07951	.01595	.00218	-.00003	.00011	.09416
.029	290.590	.11101	.19237	.05443	.00457	-.07608	.02825	.00312	-.00045	.00017	.10255
.018	391.050	.04208	.04449	.05755	.00394	-.05149	.02936	.00449	-.00090	.00019	.10689
-.030	491.610	.05740	-.16234	-.01357	-.00142	-.01852	.00734	.00340	-.00009	-.00002	.08795
-.018	591.440	.17534	-.07538	.00018	.00044	-.00514	.00121	.00230	.00025	-.00003	.08697
-.005	791.310	.10787	-.20121	.01439	-.00113	-.00538	.00109	.00256	.00027	-.00003	.08879
-.009	871.290	.20393	.08772	.01023	.00331	-.00593	.00116	.00232	.00013	-.00003	.08999
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2400/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.028	-53.538	1.16690	-.03857	5.03750	.00324	.06346	.00756	.00339	-.00005	-.00000	.08220
4.942	8.215	-.04731	-.06587	4.98570	-.00167	.00872	.00285	.00412	.00027	.00015	.08439
4.995	41.697	.06567	-.38513	5.02230	-.00424	-.01206	.00941	.00441	.00038	.00010	.08591
5.010	91.124	.05355	-.02030	5.04230	.00192	-.02064	.02219	.00460	.00000	.00008	.09035
5.041	190.310	.16790	.05717	5.07050	.00489	-.01530	.04026	.00469	-.00104	.00003	.09950
5.008	290.850	.06827	.07894	5.03210	.00431	.00398	.04020	.00401	-.00172	.00004	.10257
4.968	391.510	.02878	.28390	4.98350	.00210	.03975	.02135	.00177	-.00027	-.00004	.08716
4.985	531.240	.15347	.24223	5.00410	.00594	.04969	.01805	.00222	-.00006	-.00006	.08777
	GRADIENT	-.00576	-.00802	.60443	-.00020	.00106	.00035	.00050	.00003	.00002	.01027

V41B-D9A (IA22),ORBITER(O)RC1) W/ET SEPARATING (RVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2752/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.037	625.680	200.21000	.53212	.00549	.55188	-.04257	.00139	-.00071	.00325	-.02116	.23321
-20.079	700.710	200.45000	.34764	.00425	.42517	-.03682	.00075	-.00025	.00254	-.03275	.23356
-19.950	799.290	200.07000	.61287	.01412	.37014	-.02707	.00281	-.00067	.00025	-.03336	.23368
-19.969	999.130	199.83000	.33130	.00793	.23210	.00474	-.00186	-.00010	.00058	-.02043	.23324
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2756/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-14.982	474.520	199.92000	1.48190	.02396	.50862	-.03278	.00018	-.00031	.00113	-.01924	.23414
-15.026	499.990	200.15000	-.59793	-.00642	.44934	-.02821	.00083	-.00055	.00104	-.01832	.23391
-15.047	550.080	200.25000	.41197	.00600	.38010	-.02534	.00115	-.00056	.00095	-.02615	.23350
-15.058	600.420	200.26000	.01116	-.00016	.31836	-.01875	.00049	-.00050	.00089	-.02966	.23398
-15.028	700.120	200.23000	.00227	.00006	.27101	-.00313	-.00137	-.00018	.00050	-.02452	.23403
-14.913	798.420	199.75000	.46178	.01523	.23738	.00268	-.00191	-.00009	.00058	-.02108	.23374
-15.011	999.400	199.97000	-.26786	-.00281	.22898	.00487	-.00180	-.00010	.00060	-.02003	.23377
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2760/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.485	349.490	200.01000	-.57715	-.00600	.42079	-.01231	-.00009	-.00037	.00088	-.02130	.23441
-10.534	400.020	200.18000	.23155	.00423	.35572	-.00721	-.00180	-.00007	.00091	-.02024	.23429
-10.531	450.010	200.13000	.12771	.00373	.32738	-.00805	-.00104	-.00016	.00006	-.01912	.23407
-10.554	500.410	200.24000	.24972	.00430	.29617	-.00616	-.00146	-.00019	.00067	-.02177	.23494
-10.525	599.950	200.23000	.30079	.00547	.24305	.00066	-.00140	-.00016	.00019	-.02291	.23441
-10.458	699.940	199.94000	.55001	.01338	.23217	.00418	-.00175	-.00014	.00057	-.02053	.23480
-10.496	799.220	200.03000	.17631	.00531	.22553	.00499	-.00187	-.00012	.00059	-.02005	.23403
-10.514	999.330	199.95000	-.14474	.00009	.22319	.00502	-.00192	-.00014	.00059	-.02007	.23378
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ORBITER(O4RC1) W/ET SEPARATING (RVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.011	167.230	200.19000	-.08162	.00153	.3681 8	.01929	-.01048	-.00014	.00056	.00005	.23343
-5.010	192.200	200.09000	-.16929	.00001	.3621 9	.01355	-.01083	-.00006	.00025	-.00368	.23367
-5.017	242.080	200.12000	.07748	.00300	.3261 2	.00787	-.01173	-.00004	.00013	-.00454	.23310
-5.036	292.470	200.23000	-.21540	-.00078	.2981 2	.00620	-.01210	-.00002	-.00029	-.00578	.23282
-5.036	392.400	200.10000	-.26030	-.00140	.2891 8	.00175	-.01197	.00010	-.00022	-.00145	.23322
-5.000	491.980	200.22000	.74159	.01014	.2561 1	.00019	-.01165	-.00009	.00007	-.00559	.23289
-4.952	591.080	200.11000	.07406	.00809	.2411 6	.00240	-.01169	-.00010	.00016	-.00565	.23343
-4.991	691.520	200.16000	.02815	.00245	.2341 6	.00448	-.01148	-.00021	.00034	-.00409	.23331
-5.002	791.490	200.16000	.01285	.00220	.2341 4	.00451	-.01160	-.00018	.00033	-.00413	.23253
-4.999	991.380	200.19000	.02056	.00267	.2341 6	.00452	-.01158	-.00020	.00034	-.00417	.23298
	GRADIENT	.00000	.00000	.00000	.0001 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2395/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.001	11.202	200.09000	-.35801	-.00287	.2535 2	.01990	-.01220	-.00044	-.00011	.01115	.23247
-.032	42.224	200.06000	.05122	.00391	.2805 8	.02046	-.01053	.00011	-.00034	.00536	.23226
-.034	92.370	200.07000	-.04934	.00180	.3019 2	.02005	-.01127	-.00049	-.00006	.00246	.23259
-.038	142.310	200.07000	.06253	.00331	.2920 0	.01809	-.01122	.00008	.00016	-.00262	.23220
-.047	192.440	200.03000	-.12486	.00070	.2670 1	.01178	-.01181	-.00003	-.00032	-.00592	.23274
-.031	292.310	200.12000	-.00693	.00293	.2738 8	.00583	-.01276	.00022	.00018	-.00295	.23280
-.001	391.920	200.05000	.28062	.00453	.2725 3	.00006	-.01150	-.00011	.00009	-.00281	.23231
.027	491.010	200.16000	.05008	.00442	.2397 5	.00205	-.01124	-.00010	-.00011	-.00544	.23311
-.007	591.440	200.11000	-.08518	.00096	.2338 3	.00410	-.01149	-.00016	.00030	-.00352	.23367
-.007	791.380	200.13000	.00322	.00369	.2322 2	.00444	-.01158	-.00020	.00033	-.00327	.23325
-.008	871.330	200.26000	-.09753	.00094	.2328 9	.00446	-.01152	-.00020	.00033	-.00325	.23290
	GRADIENT	.00000	.00000	.00000	.0001 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2401/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
5.047	-60.236	200.15000	-.04630	.00176	.2145 3	.00298	-.01348	-.00012	-.00012	.00591	.23289
4.981	6.591	200.06000	.04386	.00337	.2818 9	.02273	-.01072	-.00031	-.00001	.00260	.23325
4.970	42.164	200.08000	-.06351	.00157	.2734 4	.02221	-.01239	-.00078	.00007	.00021	.23278
4.952	92.694	199.93000	.11897	.00367	.2091 3	.01549	-.01195	-.00006	.00006	-.00381	.23331
4.957	192.340	199.93000	-.23895	-.00187	.2642 5	.01022	-.01220	-.00006	-.00011	-.00438	.23348
4.989	291.660	200.04000	-.16527	.00010	.2755 0	.00426	-.01248	-.00002	-.00005	-.00130	.23338
5.022	391.220	200.18000	.30100	.00992	.2515 3	.00249	-.01210	-.00014	.00008	-.00510	.23329
4.988	531.350	199.93000	-.10845	.00112	.2376 5	.00505	-.01215	-.00019	.00034	-.00405	.23324
	GRADIENT	30.35305	.00665	.00051	.0391 0	.00345	-.00163	-.00005	-.00000	.00039	.03539

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2752/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.037	625.680	-.00900	-.00071	.00649	.21695	-.03156	.02301	.00882	-.00166	.00330
-20.079	700.710	-.00900	-.00116	.00425	.09086	-.02593	.01134	.00816	-.00119	.00259
-19.950	799.290	-.00300	-.00062	.01412	.03538	-.01607	.01079	.01022	-.00161	.00030
-19.969	999.130	.01900	-.00077	.00798	-.10259	.01573	.02371	.00556	-.00104	.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2756/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.982	474.520	-.00200	-.00101	.02036	.17593	-.02192	.02438	.00751	-.00124	.00117
-15.026	499.990	-.00100	-.00071	-.00842	.11865	-.01735	.02529	.00816	-.00148	.00108
-15.047	550.080	-.00200	-.00069	.00800	.04931	-.01447	.01747	.00848	-.00149	.00099
-15.058	600.420	.00200	-.00065	-.00016	-.01229	-.00769	.01395	.00781	-.00144	.00094
-15.028	700.120	.01400	-.00078	.00006	-.05861	.00773	.01908	.00595	-.00111	.00055
-14.913	799.420	.01800	-.00079	.01523	-.09319	.01354	.02252	.00541	-.00102	.00063
-15.011	999.400	.01900	-.00076	-.00281	-.10221	.01575	.02365	.00554	-.00103	.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2760/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.485	349.490	.01200	-.00089	-.00600	.08996	-.00141	.02246	.00726	-.00131	.00092
-10.534	400.020	.01400	-.00082	.00423	.02505	.00338	.02350	.00555	-.00101	.00095
-10.531	450.010	.01100	-.00086	.00373	-.00482	.00266	.02469	.00632	-.00110	.00010
-10.554	500.410	.01200	-.00080	.00430	-.03634	.00477	.02208	.00591	-.00113	.00071
-10.525	599.950	.01600	-.00076	.00547	-.08916	.01158	.02090	.00596	-.00109	.00024
-10.458	698.940	.01900	-.00072	.01338	-.10023	.01510	.02330	.00562	-.00108	.00061
-10.496	799.220	.01900	-.00073	.00531	-.10277	.01591	.02377	.00549	-.00106	.00063
-10.514	999.330	.01900	-.00071	.00009	-.10296	.01593	.02373	.00544	-.00108	.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK032) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
= .000 ELEVON = .000
JMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.011	167.230	.03980	-.00032	.00153	.03929	.03012	.04352	-.00318	-.00107	.00060
-5.010	192.200	.03320	-.00049	.00001	.03298	.02438	.03982	-.00353	-.00099	.00029
-5.017	242.030	.02630	-.00058	.00300	-.00344	.01870	.03693	-.00442	-.00097	.00017
-5.036	292.470	.02350	-.00063	-.00072	-.03209	.01706	.03780	-.00478	-.00095	-.00025
-5.036	392.400	.01910	-.00091	-.00140	-.04035	.01259	.04204	-.00467	-.00083	-.00018
-5.000	491.960	.01610	-.00065	.01014	-.07279	.01102	.03790	-.00434	-.00101	.00011
-4.952	591.080	.01740	-.00060	.00609	-.09780	.01323	.03783	-.00438	-.00103	.00020
-4.991	691.520	.01690	-.00046	.00245	-.09573	.01534	.03948	-.00416	-.00114	.00039
-5.002	791.490	.01890	-.00049	.00220	-.09579	.01536	.03942	-.00428	-.00111	.00038
-4.999	991.380	.01900	-.00047	.00287	-.09650	.01537	.03939	-.00427	-.00113	.00038
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2395/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.001	11.202	.03400	.00003	-.00287	-.07354	.03065	.05430	-.00495	-.00137	-.00006
-.032	42.224	.04315	-.00049	.00391	-.04653	.03921	.04850	-.00328	-.00081	-.00030
-.034	92.370	.04011	.00014	.00180	-.02525	.03480	.04561	-.00402	-.00142	-.00001
-.038	142.310	.03419	-.00058	.00331	-.03537	.02885	.04056	-.00396	-.00084	.00020
-.047	192.440	.02725	-.00054	.00070	-.06024	.02253	.03724	-.00456	-.00095	-.00028
-.031	292.310	.02299	-.00087	.00293	-.05402	.01759	.04021	-.00551	-.00070	.00023
-.001	391.920	.01674	-.00062	.00453	-.05480	.01081	.04036	-.00424	-.00103	.00013
.027	491.010	.01704	-.00062	.00442	-.08772	.01281	.03775	-.00398	-.00102	-.00006
-.007	591.440	.01663	-.00052	.00096	-.09389	.01486	.03967	-.00424	-.00108	.00034
-.007	791.380	.01897	-.00047	.00359	-.09336	.01520	.03993	-.00432	-.00112	.00038
-.008	871.330	.01899	-.00047	.00094	-.09327	.01522	.03995	-.00426	-.00112	.00038
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2401/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.047	-60.236	.01660	-.00055	.00176	-.11447	.01379	.04930	-.00619	-.00105	-.00007
4.981	6.591	.03580	-.00011	.00337	-.06719	.03354	.04597	-.00344	-.00123	.00003
4.970	42.164	.03700	.00043	.00157	-.05492	.03302	.04359	-.00510	-.00171	.00012
4.952	92.634	.03420	-.00040	.00257	-.02220	.03029	.03957	-.00467	-.00099	.00010
4.957	192.340	.02220	-.00032	-.00187	-.05483	.02174	.03803	-.00491	-.00099	-.00006
4.983	291.680	.02070	-.00034	.00010	-.05541	.01507	.04208	-.00519	-.00095	-.00001
5.022	391.220	.01790	-.00055	.00932	-.07758	01330	.03830	-.00481	-.00106	.00012
4.988	531.350	.01960	-.00046	.00112	-.09151	.01588	.03936	-.00486	-.00112	.00038
	GRADIENT	.00558	-.00002	.00051	-.01018	.00509	.00697	-.00052	-.00019	.00001

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK032) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2752/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.037	625.680	200.21000	.53212	.06180	-.09373	443.34000	.00000	.00000	663.50000	.00000	.00000
-20.079	700.710	200.45000	.34764	.13458	.04745	442.53000	.00000	.00000	662.28000	.00000	.00000
-19.950	799.290	200.07000	.61287	.03311	-.10623	443.12000	.00000	.00000	663.17000	.00000	.00000
-19.969	999.130	199.83000	.33130	.05125	-.06523	443.03000	.00000	.00000	663.04000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2755/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.992	474.520	199.39000	1.48190	.13400	.05923	437.73000	.00000	.00000	655.11000	.00000	.00000
-15.026	499.990	200.15000	-.58793	.01850	-.13933	437.73000	.00000	.00000	655.10000	.00000	.00000
-15.047	550.080	200.25000	.41197	.11567	.06097	437.87000	.00000	.00000	655.32000	.00000	.00000
-15.058	600.420	200.26000	.01116	.02818	-.05983	437.93000	.00000	.00000	655.03000	.00000	.00000
-15.028	700.120	200.23000	.00227	.03978	-.04183	437.84000	.00000	.00000	654.97000	.00000	.00000
-14.913	753.420	193.75000	.46178	.04140	-.03475	437.57000	.00000	.00000	654.63000	.00000	.00000
-15.011	999.400	199.97000	-.26765	.04460	-.04311	438.40000	.00000	.00000	656.10000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2760/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.485	349.490	200.01000	-.57715	.00280	-.11573	439.25000	.00000	.00000	657.38000	.00000	.00000
-10.534	400.020	200.18000	.23155	.00039	-.10373	439.02000	.00000	.00000	657.03000	.00000	.00000
-10.531	450.010	200.13000	.12771	.00991	-.07353	439.73000	.00000	.00000	658.10000	.00000	.00000
-10.554	500.410	200.24000	.24972	.02195	-.03813	440.15000	.00000	.00000	658.72000	.00000	.00000
-10.525	599.950	200.23000	.30079	.03075	-.01103	439.75000	.00000	.00000	658.13000	.00000	.00000
-10.458	698.940	199.94000	.55001	.02997	-.01343	440.00000	.00000	.00000	658.49000	.00000	.00000
-10.496	799.220	200.03000	.17631	.03192	-.01823	439.65000	.00000	.00000	658.28000	.00000	.00000
-10.514	999.330	199.99000	-.14474	.03498	-.02353	439.66000	.00000	.00000	657.99000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER-04RC1) W/ET SEPARATING (TVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.011	167.230	200.19000	-.09162	.02538	-.0332[illegible]	436.29000	.00000	.00000	652.94000	.00000	.00000
-5.010	192.200	200.08000	-.16929	.01593	-.0402[illegible]	435.43000	.00000	.00000	653.15000	.00000	.00000
-5.017	242.080	200.12000	.07748	.00574	-.0602[illegible]	435.33000	.00000	.00000	653.05000	.00000	.00000
-5.036	292.470	200.23000	-.21540	.02042	-.0114	437.49000	.00000	.00000	654.74000	.00000	.00000
-5.028	342.400	200.10000	-.22060	.00744	-.0403[illegible]	433.46000	.00000	.00000	653.20000	.00000	.00000
-5.000	491.930	200.23000	.74159	.02131	-.0202[illegible]	435.43000	.00000	.00000	653.16000	.00000	.00000
-4.962	591.030	200.11000	.07405	.02700	-.0155[illegible]	436.37000	.00000	.00000	653.03000	.00000	.00000
-4.991	691.520	200.16000	.02615	.02783	-.0211[illegible]	437.33000	.00000	.00000	654.51000	.00000	.00000
-5.002	791.490	200.16000	.01256	.02831	-.0214[illegible]	437.12000	.00000	.00000	654.19000	.00000	.00000
-4.999	991.380	200.19000	.02056	.03001	-.0225[illegible]	437.18000	.00000	.00000	654.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2395/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.001	11.202	200.09000	-.35801	.01874	.0027[illegible]	433.08000	.00000	.00000	648.11000	.00000	.00000
-.032	42.224	200.05000	.05122	.01935	.0041[illegible]	432.98000	.00000	.00000	648.00000	.00000	.00000
-.034	92.370	200.07000	-.04594	.01653	.0006	433.07000	.00000	.00000	648.13000	.00000	.00000
-.038	142.310	200.07000	.03253	.00414	-.0223	433.34000	.00000	.00000	648.53000	.00000	.00000
-.047	192.440	200.05000	-.12486	.02205	.0203	433.10000	.00000	.00000	648.22000	.00000	.00000
-.031	292.310	200.12000	-.00093	.00746	-.0194	433.24000	.00000	.00000	648.36000	.00000	.00000
-.001	391.930	200.03000	.22002	-.00044	-.0342[illegible]	433.23000	.00000	.00000	648.46000	.00000	.00000
.027	491.010	200.16000	.05008	.02135	.0016[illegible]	433.43000	.00000	.00000	648.72000	.00000	.00000
-.007	591.440	200.11000	-.06318	.02053	-.0078[illegible]	433.54000	.00000	.00000	648.82000	.00000	.00000
-.007	791.390	200.13000	.06022	.02063	-.0073[illegible]	433.62000	.00000	.00000	648.95000	.00000	.00000
-.008	871.330	200.23000	-.09753	.02115	-.0092[illegible]	433.52000	.00000	.00000	648.82000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.0000[illegible]	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2401/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.047	-60.236	200.19000	-.04630	.01447	.0019[illegible]	435.50000	.00000	.00000	651.76000	.00000	.00000
4.981	6.591	200.08000	.04386	.01451	.0042[illegible]	435.33000	.00000	.00000	651.51000	.00000	.00000
4.970	42.164	200.03000	-.06351	.01491	.0060[illegible]	435.32000	.00000	.00000	651.49000	.00000	.00000
4.952	92.694	199.98000	.11697	.01899	.0111[illegible]	435.41000	.00000	.00000	651.62000	.00000	.00000
4.957	192.340	199.93000	-.23386	.01208	.0009	435.61000	.00000	.00000	651.93000	.00000	.00000
4.939	291.600	200.04000	-.15227	.00314	-.0191[illegible]	435.37000	.00000	.00000	651.58000	.00000	.00000
5.022	391.220	200.10000	.30100	.01603	.0043[illegible]	435.61000	.00000	.00000	651.93000	.00000	.00000
4.938	531.330	199.93000	-.10045	.01635	-.0003[illegible]	435.71000	.00000	.00000	652.07000	.00000	.00000
	GRADIENT	30.35305	.00665	.00220	.0003[illegible]	68.04818	.00000	.00000	98.84693	.00000	.00000

V41B-D9A (IA22),ORBITER:04RC1) W/ET SEPARATING (UVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2752/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.037	625.680	978.22000	978.22000	86.00000	978.22000	977.84000	87.00000	76.00000	24.91000	99.64200
-20.079	700.710	978.38000	978.38000	86.00000	978.38000	977.84000	87.00000	76.00000	15.83300	99.64200
-19.950	799.280	978.22000	978.22000	86.00000	978.22000	977.84000	87.00000	76.00000	11.94600	99.64200
-19.969	999.130	978.03000	978.03000	86.00000	978.03000	977.84000	87.00000	76.00000	16.09900	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2756/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.982	474.520	979.38000	979.38000	85.00000	979.38000	978.74000	6.00000	77.00000	15.97000	99.64200
-15.026	499.930	979.37000	979.37000	85.00000	979.37000	978.74000	6.00000	77.00000	11.54100	99.64200
-15.047	550.080	979.21000	979.21000	85.00000	979.21000	978.74000	6.00000	77.00000	5.97280	99.64200
-15.058	600.420	979.27000	979.27000	85.00000	979.27000	978.74000	6.00000	77.00000	3.39120	99.64200
-15.028	700.120	979.18000	979.18000	85.00000	979.18000	978.74000	6.00000	77.00000	4.82240	99.64200
-14.913	793.420	979.01000	979.01000	85.00000	979.01000	978.74000	6.00000	77.00000	7.61130	99.64200
-15.011	999.400	978.93000	978.93000	85.00000	978.93000	978.74000	6.00000	77.00000	11.10200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2760/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.485	349.490	980.35000	980.35000	84.00000	980.35000	980.10999	69.00000	77.00000	11.07100	99.64200
-10.534	400.020	980.32000	980.32000	84.00000	980.32000	980.10999	69.00000	77.00000	5.40390	99.64200
-10.531	450.010	979.97000	979.97000	84.00000	979.97000	980.10999	69.00000	77.00000	1.67710	99.64200
-10.554	500.410	980.41000	980.41000	84.00000	980.41000	980.10999	69.00000	77.00000	.73106	99.64200
-10.525	599.980	980.50000	980.50000	84.00000	980.50000	980.10999	69.00000	77.00000	1.42850	99.64200
-10.458	698.940	980.55000	980.55000	84.00000	980.55000	980.10999	69.00000	77.00000	2.73990	99.64200
-10.496	799.220	980.24000	980.24000	84.00000	980.24000	980.10999	69.00000	77.00000	3.83280	99.64200
-10.514	999.330	980.30000	980.30000	84.00000	980.30000	980.10999	69.00000	77.00000	5.60730	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK032) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.011	167.230	977.12000	977.12000	85.00000	977.12000	976.92999	70.00000	76.00000	4.23230	99.76800
-5.010	192.200	977.43000	977.43000	85.00000	977.43000	976.92999	70.00000	76.00000	3.73560	99.76800
-5.017	242.080	977.29000	977.29000	85.00000	977.29000	976.92999	70.00000	76.00000	.90715	99.76800
-5.036	292.470	977.40000	977.40000	85.00000	977.40000	976.92999	70.00000	76.00000	-2.65550	99.76800
-5.036	392.400	977.51000	977.51000	85.00000	977.51000	976.92999	70.00000	76.00000	-4.06290	99.76800
-5.000	491.930	977.44000	977.44000	85.00000	977.44000	976.92999	70.00000	76.00000	-4.84220	99.76800
-4.982	591.030	977.39000	977.39000	85.00000	977.39000	976.92999	70.00000	76.00000	-5.12980	99.76800
-4.991	691.520	977.53000	977.53000	85.00000	977.53000	976.92999	70.00000	76.00000	-4.58210	99.76800
-5.002	791.490	977.05000	977.05000	85.00000	977.05000	976.92999	70.00000	76.00000	-3.84490	99.76800
-4.999	991.380	977.14000	977.14000	85.00000	977.14000	976.92999	70.00000	76.00000	-2.48960	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2395/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.001	11.202	974.20000	974.20000	83.00000	974.20000	975.16000	68.00000	76.00000	-4.65800	99.76800
-.032	42.224	974.04000	974.04000	83.00000	974.04000	975.16000	68.00000	76.00000	-4.34780	99.76800
-.034	92.370	974.23000	974.23000	83.00000	974.23000	975.16000	68.00000	76.00000	-4.17470	99.76800
-.038	142.310	974 [illegible]00	974.35000	83.00000	974.35000	975.16000	68.00000	76.00000	-4.72410	99.76800
-.047	192.440	97 [illegible]0	974.46000	83.00000	974.46000	975.16000	68.00000	76.00000	-5.31970	99.76800
-.031	292.310	9[illegible]00	974.61000	83.00000	974.61000	975.16000	68.00000	76.00000	-6.46720	99.76800
-.001	391.920	974..2000	974.72000	83.00000	974.72000	975.16000	68.00000	76.00000	-7.67300	99.76800
.027	491.010	975.11000	975.11000	83.00000	975.11000	975.16000	68.00000	76.00000	-8.47420	99.76800
-.007	591.440	975.27000	975.27000	83.00000	975.27000	975.16000	68.00000	76.00000	-8.60140	99.76800
-.007	791.380	975.46000	975.46000	83.00000	975.46000	975.16000	68.00000	76.00000	-7.97610	99.76800
-.008	871.330	975.37000	975.37000	83.00000	975.37000	975.16000	68.00000	76.00000	-7.52830	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2401/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.047	-60.236	973.91000	973.91000	81.00000	973.91000	974.16000	66.00000	74.00000	-7.52580	99.76800
4.981	6.591	974.02000	974.02000	81.00000	974.02000	974.16000	66.00000	74.00000	-6.93520	99.76800
4.970	42.164	973.93000	973.93000	81.00000	973.93000	974.16000	66.00000	74.00000	-6.71800	99.76800
4.952	92.694	974.18000	974.18000	81.00000	974.18000	974.16000	66.00000	74.00000	-6.58000	99.76800
4.957	192.340	974.16000	974.16000	81.00000	974.16000	974.16000	66.00000	74.00000	-6.60790	99.76800
4.989	291.660	974.12000	974.12000	81.00000	974.12000	974.16000	66.00000	74.00000	-7.41190	99.76800
5.022	391.220	974.23000	974.23000	81.00000	974.23000	974.16000	66.00000	74.00000	-7.95470	99.76800
4.988	531.350	974.37000	974.37000	81.00000	974.37000	974.16000	66.00000	74.00000	-8.17110	99.76800
	GRADIENT	147.77806	147.77806	12.28930	147.77806	147.79930	10.01350	11.22726	-1.05221	15.13678

V41B-D9A (IA22),ET SEP/RATING FROM ORB (O4RC1) (AVK032) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2752/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.037	625.680	200.21000	.53212	-20.04600	.0057 8	-.43630	-.02306	.01874	.00016	.00083	.10989
-20.079	700.710	200.45000	.34764	-20.08800	.0031 9	-.44324	-.01084	.01931	-.00118	.00069	.12337
-19.950	799.290	200.07000	.61287	-19.95300	.0135 0	-.47571	.02465	.01962	-.00236	.00056	.15027
-19.959	999.130	199.83000	.33130	-19.95000	.0072 1	-.35549	-.00802	.01406	-.00018	.00034	.13703
	GRADIENT	.00000	.00000	.00000	.0000 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2756/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.982	474.520	199.99000	1.48190	-14.98400	.0225 5	-.35453	-.00651	.01282	.00098	.00086	.11466
-15.026	499.990	200.15000	-.58793	-15.02700	-.0091 3	-.32054	-.02414	.01234	.00128	.00043	.10129
-15.047	550.080	200.25000	.41197	-15.04900	.0073 2	-.31583	-.02130	.01380	.00018	.00046	.10665
-15.058	600.420	200.26000	.01116	-15.06500	-.0008 2	-.32792	-.00792	.01427	-.00039	.00040	.11329
-15.028	700.120	200.23000	.00227	-15.01400	-.0007 2	-.34946	.01973	.01439	-.00132	.00024	.13716
-14.913	798.420	199.75000	.45178	-14.88500	.0144 4	-.32694	.02381	.01559	-.00253	.00052	.14806
-15.011	999.400	199.97000	-.23786	-14.99200	-.0035 7	-.21627	-.03569	.00960	.00114	-.00000	.10678
	GRADIENT	.00000	.00000	.00000	.0000 0	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2760/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.485	349.490	200.01000	-.57715	-10.47300	-.0068 8	-.25643	-.00720	.00917	.00025	.00037	.11357
-10.534	400.020	200.18000	.23155	-10.52000	.0033 1	-.22401	-.02377	.01041	.00061	.00013	.09895
-10.531	450.010	200.13000	.12771	-10.52000	.0028 7	-.22911	-.01562	.01141	.00016	.00015	.10149
-10.554	500.410	200.24000	.24972	-10.54200	.0035 0	-.23707	-.00520	.01188	-.00014	.00015	.10600
-10.525	599.950	200.23000	.30079	-10.50900	.0047 1	-.24884	.01577	.01245	-.00085	.00005	.12090
-10.458	699.940	199.94000	.55001	-10.43900	.0128 6	-.22916	.01756	.01207	-.00145	.00023	.12836
-10.496	799.220	200.03000	.17631	-10.47700	.0045 7	-.16101	-.01838	.00835	.00083	-.00014	.10261
-10.514	999.330	199.93000	-.14474	-10.49500	-.0008 2	-.13995	-.03094	.00767	.00118	-.00019	.09947
	GRADIENT	.00000	.00000	.00000	.0000 0	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEP/RATING FROM ORB (O4RC1) (AVK032) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2389/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.011	167.230	200.19000	-.08162	-4.97230	.0017[illegible]	-.16844	-.01508	.00415	.00013	.00038	.09671
-5.010	192.200	200.09000	-.16929	-4.97670	-.0008	-.16742	-.00871	.00256	.00033	.00042	.09958
-5.017	242.080	200.12000	.07748	-4.99070	.0024	-.14411	-.01251	.00316	.00054	.00019	.09048
-5.036	292.470	200.23000	-.21540	-5.01280	-.0011	-.13664	-.00997	.00214	.00024	.00020	.09309
-5.036	392.400	200.10000	-.26030	-5.01650	-.0026	-.14283	.00428	.00338	.00026	.00020	.09753
-5.000	491.560	200.22000	.74159	-4.98410	.0059	-.14489	.01879	.00492	-.00045	.00016	.10847
-4.952	591.080	200.11000	.07406	-4.93510	.0054	-.12287	.01731	.00595	-.00114	.00034	.11073
-4.991	691.520	200.16000	.02615	-4.97190	.0019	-.07156	-.01059	.00322	.00046	.00003	.09029
-5.002	791.490	200.16000	.01296	-4.98310	.0017	-.06235	-.01544	.00260	.00051	-.00003	.09003
-4.939	891.330	200.19000	.02056	-4.97970	.0029	-.06252	-.01514	.00268	.00045	-.00003	.09282
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2395/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.001	11.202	200.09000	-.35801	.03256	-.0028	-.05463	-.02241	.00154	.00022	.00022	.08802
-.032	42.224	200.05000	.05122	.01159	.0032	-.08138	-.01930	.00425	.00003	.00032	.08927
-.034	92.370	200.07000	-.04934	.00341	.0019	-.03791	-.01028	.00364	.00028	.00004	.08960
-.038	142.310	200.07000	.00333	-.00333	.0032	-.07105	-.00613	.00281	.00032	.00016	.08663
-.047	192.440	200.03000	-.12486	-.01930	.0001	-.07257	.00249	.00411	.00003	.00013	.08974
-.031	292.310	200.12000	-.00093	-.00768	.0019	-.07324	.01667	.00235	-.00006	.00010	.09706
-.001	391.920	200.05000	.28062	.01611	.0035	-.07143	.02869	.00317	-.00024	.00004	.10394
.027	491.010	200.16000	.05008	.04436	.0038	-.04875	.02449	.00484	-.00057	.00015	.10530
-.007	591.440	200.11000	-.08518	.01135	.0004	-.00917	.00269	.00258	.00025	-.00003	.08575
-.007	791.390	200.13000	.08022	.01160	.0032	-.00533	.00117	.00219	.00018	-.00004	.06848
-.008	871.330	200.23000	-.09753	.01066	.0007	-.00557	.00113	.00221	.00010	-.00003	.08981
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2401/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.047	-60.236	200.19000	-.04630	5.05320	.0012	.04377	.00249	.00134	.00031	-.00000	.08517
4.981	6.591	200.05000	.04386	5.01760	.0032	-.00634	-.00323	.00320	.00001	.00009	.08511
4.970	42.184	200.03000	-.06351	5.00700	.0021	-.01806	.00245	.00328	.00010	.00007	.08591
4.952	92.694	199.93000	.11697	4.93330	.0022	-.01586	.01173	.00403	.00015	.00008	.09024
4.957	192.340	199.98000	-.23595	4.98290	-.0021	-.01619	.02935	.00466	-.00076	.00007	.09444
4.989	291.680	200.01000	-.16527	5.01010	-.0001	-.00947	.03991	.00447	-.00129	.00001	.10100
5.022	391.220	200.19000	.30100	5.03990	.0091	.01452	.03431	.00493	-.00137	.00008	.10073
4.988	531.350	199.96000	-.10845	5.00720	.0006	.04881	.01794	.00148	-.00013	-.00005	.08682
	GRADIENT	33.35305	.09665	.76127	.0009	-.00105	-.00049	.00049	.00000	.00001	.01291

V41B-D9A (IA22),ORBITEF(04RC1) W/ET SEPARATING (RVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2753/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.046	525.500	400.30000	-.02751	.00061	.39839	-.03296	.00156	-.00053	.00142	-.03411	.23345
-20.004	599.250	399.85000	.28421	.00809	.30245	-.01331	-.00054	-.00021	.00066	-.03145	.23359
-19.961	788.700	399.69000	.38330	.00899	.26214	-.00083	-.00153	-.00014	.00055	-.02393	.23353
-19.948	838.190	399.54000	.29529	.01043	.23084	.00493	-.00182	-.00010	.00060	-.02063	.23377
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2757/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.031	474.930	400.16000	.31698	.00997	.40949	-.02769	-.00049	-.00026	.00116	-.02823	.23364
-15.058	500.020	400.11000	-.14593	-.00605	.34924	-.01655	-.00043	-.00030	.00089	-.02554	.23399
-15.019	549.390	399.92000	.77886	.01468	.28904	-.01109	-.00092	-.00025	.00052	-.02712	.23326
-14.998	599.240	399.94000	.12764	.00648	.26078	-.00307	-.00178	-.00007	.00053	-.02545	.23452
-14.951	699.590	399.81000	-.09772	.00121	.23589	.00328	-.00168	-.00013	.00055	-.02145	.23390
-14.966	798.610	399.84000	-.39595	-.00286	.22949	.00497	-.00186	-.00015	.00059	-.02046	.23392
-15.093	1000.000	400.30000	-.10084	.00414	.22931	.00495	-.00168	-.00013	.00059	-.02041	.23405
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2761/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.510	349.900	400.03000	.37261	.00708	.38382	-.01222	-.00192	.00007	.00120	-.02085	.23406
-10.558	399.780	400.12000	-.19348	-.00427	.34252	-.01097	-.00072	-.00030	.00041	-.01933	.23429
-10.508	449.230	400.05000	-1.04400	-.01200	.25506	-.00747	-.00148	-.00017	.00075	-.02338	.23465
-10.491	499.130	399.95000	-.84660	-.00953	.25619	-.00134	-.00175	-.00012	.00055	-.02314	.23429
-10.470	598.550	399.90000	-.44149	-.00274	.23970	.00236	-.00172	-.00015	.00053	-.02218	.23452
-10.477	698.590	399.94000	.23647	.00569	.23017	.00495	-.00180	-.00016	.00060	-.02103	.23423
-10.525	799.300	400.07000	-.48923	-.00553	.23017	.00500	-.00196	-.00016	.00058	-.02094	.23402
-10.571	999.940	400.27000	-.51295	-.00689	.22997	.00496	-.00187	-.00015	.00058	-.02077	.23408
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22,ORBITER(04RC1) W/ET SEPARATING (RVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2390/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-5.021	167.060	400.02000	.21442	.00321	.34612	.01568	-.01214	-.00005	.00006	-.00425	.23334
-4.966	191.240	400.08000	-.11203	.00237	.35036	.01142	-.01209	-.00005	.00014	-.00285	.23334
-4.978	240.950	400.00000	.18531	.00328	.34030	.00426	-.01205	.00006	.00008	-.00286	.23349
-5.005	291.400	400.08000	-.17084	.00123	.30945	.00113	-.01246	.00026	-.00017	-.00439	.23352
-4.958	390.760	400.02000	.04047	-.00197	.28118	-.00129	-.01157	-.00009	.00020	-.00411	.23338
-4.982	490.700	399.98000	.04956	.00393	.24389	.00142	-.01137	-.00006	-.00016	-.00673	.23298
-4.947	590.960	400.04000	.16327	.00542	.23593	.00397	-.01142	-.00014	.00031	-.00464	.23356
-5.005	691.370	400.02000	.19453	.00485	.23371	.00449	-.01167	-.00019	.00035	-.00407	.23301
-5.036	791.840	400.08000	-.07741	-.00065	.23389	.00450	-.01148	-.00018	.00035	-.00394	.23250
-4.999	991.310	400.13000	-.14910	-.00002	.23364	.00447	-.01168	-.00020	.00034	-.00382	.23344
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2396/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-.010	11.651	400.14000	.01404	.00263	.32552	.03917	-.01201	-.00045	-.00006	.00551	.23353
.027	40.760	400.15000	.10194	.00345	.32131	.03229	-.01234	.00001	-.00001	.00326	.23336
.047	90.310	400.16000	.09241	.00425	.31451	.02034	-.01236	-.00015	-.00003	-.00180	.23388
.015	140.640	400.06000	.03225	.00549	.31035	.01206	-.01257	-.00011	-.00011	-.00252	.23347
.005	191.150	400.09000	-.44333	-.00490	.29548	.00737	-.01222	-.00003	-.00011	-.00331	.23353
.026	290.640	400.12000	-.04552	-.00220	.29718	.00270	-.01221	-.00014	-.00016	.00025	.23409
.028	390.590	400.33000	.02141	.00302	.25358	.00166	-.01223	-.00016	.00015	-.00480	.23341
.015	490.780	400.14000	.21482	.00487	.24170	.00359	-.01234	-.00019	.00028	-.00447	.23385
-.013	591.430	400.23000	-.12785	.00117	.23506	.00538	-.01208	-.00028	.00041	-.00309	.23364
-.022	791.560	400.24000	-.06377	.00066	.23540	.00538	-.01196	-.00031	.00041	-.00313	.23412
-.002	871.280	400.25000	.16546	.00534	.23510	.00533	-.01222	-.00030	.00042	-.00319	.23403
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2402/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
4.997	-58.460	400.03000	.17420	.00312	.28525	.03377	-.01256	-.00041	-.00012	.00586	.23396
5.051	5.095	400.17000	-.09947	.00426	.29685	.02653	-.01276	.00012	.00002	.00051	.23343
5.009	40.939	400.08000	.05194	.00424	.29193	.02019	-.01213	-.00002	-.00005	-.00306	.23308
5.008	90.873	400.17000	-.14819	.00157	.27846	.01255	-.01236	-.00003	-.00028	-.00440	.23272
5.026	190.590	400.19000	-.02458	-.00090	.27357	.00770	-.01353	.00022	.00033	-.00371	.23325
5.037	290.350	400.28000	-.14625	.00344	.27071	.00148	-.01215	-.00016	.00015	-.00327	.23346
5.019	390.730	400.26000	-.03733	.00204	.24388	.00313	-.01197	-.00017	-.00002	-.00567	.23331
4.965	531.490	400.19000	-.05706	.00114	.23582	.00549	-.01204	-.00024	.00037	-.00356	.23343
	GRADIENT	78.54325	-.01952	.00084	.05882	.00521	-.00250	.00002	.00000	.00010	.04582

V41B-D9A (IA22),ORBITER (O4RC1) W/ET SEPARATING (SVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2753/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.046	625.500	-.00700	-.00082	.00051	.05404	-.02198	.00999	.00697	-.00148	.00147
-20.004	699.290	.00300	-.00089	.00209	-.03159	-.00233	.01260	.00695	-.00118	.00091
-19.951	798.700	.01500	-.00079	.00899	-.07165	.01014	.02004	.00586	-.00108	.00059
-19.948	999.190	.01900	-.00076	.01043	-.10307	.01590	.02340	.00558	-.00104	.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2757/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.031	474.930	-.00200	-.00100	.00097	.07758	-.01678	.01554	.00685	-.00120	.00120
-15.059	500.020	.00300	-.00085	-.00005	.01773	-.00784	.01826	.00593	-.00123	.00094
-15.019	549.390	.00700	-.00081	.01465	-.04248	-.00020	.01630	.00543	-.00119	.00056
-14.998	599.240	.01300	-.00089	.00546	-.07153	.00785	.01838	.00558	-.00101	.00057
-14.991	699.590	.01800	-.00075	.00121	-.09346	.01419	.02236	.00568	-.00107	.00059
-14.985	799.610	.01900	-.00070	-.00286	-.10233	.01559	.02338	.00550	-.00109	.00063
-15.093	1000.000	.01900	-.00072	-.00414	-.10311	.01597	.02343	.00569	-.00107	.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2761/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.510	349.900	.01100	-.00114	.00708	.05558	-.00129	.02302	.00545	-.00086	.00124
-10.558	399.780	.01000	-.00075	-.00427	.01005	-.00004	.02452	.00665	-.00124	.00045
-10.508	449.230	.01100	-.00084	-.01200	-.03758	.00346	.02049	.00589	-.00111	.00090
-10.491	499.130	.01500	-.00081	-.00553	-.07608	.00958	.02068	.00561	-.00106	.00059
-10.470	598.550	.01700	-.00073	-.00274	-.09330	.01328	.02164	.00564	-.00109	.00057
-10.477	693.500	.01900	-.00070	.00039	-.10034	.01569	.02206	.00557	-.00110	.00064
-10.525	799.300	.01900	-.00039	-.00553	-.10295	.01595	.02299	.00542	-.00110	.00063
-10.571	999.940	.01900	-.00070	-.00289	-.10289	.01590	.02313	.00551	-.00109	.00062
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2390/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.021	167.060	.03440	-.00045	.00321	.01639	.02651	.03923	-.00483	-.00098	.00011
-4.966	191.240	.03080	-.00051	.00237	.02071	.02225	.04062	-.00478	-.00098	.00019
-4.978	240.950	.02370	-.00073	.00628	.01096	.01508	.04058	-.00475	-.00087	.00012
-5.005	291.400	.01940	-.00089	.00123	-.01999	.01185	.03906	-.00516	-.00067	-.00013
-4.959	390.760	.01590	-.00086	-.00197	-.04814	.00953	.03933	-.00427	-.00102	.00025
-4.952	490.700	.01670	-.00067	.00393	-.03531	.01224	.03370	-.00408	-.00099	-.00012
-4.947	590.980	.01850	-.00055	.00542	-.09329	.01479	.03878	-.00413	-.00107	.00035
-5.005	691.370	.01900	-.00048	.00485	-.09351	.01531	.03936	-.00437	-.00112	.00039
-5.036	791.840	.01890	-.00049	-.00055	-.09540	.01531	.03948	-.00418	-.00111	.00040
-4.999	991.310	.01900	-.00047	-.00002	-.09558	.01528	.03959	-.00439	-.00113	.00039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2396/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.010	11.651	.03517	.00031	.00283	-.00197	.04593	.04870	-.00476	-.00137	-.00002
.027	40.760	.04884	-.00029	.00345	-.00635	.04306	.04648	-.00508	-.00091	.00003
.047	90.310	.03739	-.00028	.00423	-.01253	.03109	.04139	-.00511	-.00107	.00001
.015	140.840	.02988	-.00043	.00549	-.01678	.02282	.04069	-.00541	-.00103	-.00007
.005	191.150	.02456	-.00059	-.00490	-.03212	.01814	.03990	-.00502	-.00095	-.00006
.026	290.640	.01937	-.00053	-.00220	-.04048	.01343	.04347	-.00495	-.00106	-.00011
.028	390.590	.01736	-.00053	.00302	-.07373	.01242	.03941	-.00497	-.00108	.00019
.015	490.760	.01655	-.00047	.00487	-.08500	.01436	.03975	-.00508	-.00112	.00033
-.013	591.430	.01908	-.00035	.00117	-.09284	.01614	.04012	-.00482	-.00121	.00045
-.022	791.560	.01989	-.00033	.00066	-.09238	.01615	.04010	-.00470	-.00123	.00046
-.002	871.280	.01984	-.00033	.00053	-.09255	.01610	.04002	-.00496	-.00122	.00047
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2402/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.987	-58.460	.04800	.00019	.00312	-.04379	.04458	.04925	-.00526	-.00134	-.00008
5.051	5.085	.04190	-.00049	.00425	-.03236	.03734	.04390	-.00546	-.00081	.00006
5.009	40.939	.03590	-.00043	.00424	-.03705	.03100	.04033	-.00484	-.00095	-.00001
5.008	90.873	.02830	-.00052	.00157	-.05067	.02337	.03900	-.00507	-.00096	-.00024
5.026	190.590	.02360	-.00084	-.00080	-.05562	.01651	.03971	-.00633	-.00071	.00037
5.037	290.390	.01790	-.00054	.00344	-.05822	.01229	.04011	-.00486	-.00108	.00020
5.019	390.730	.01810	-.00051	.00204	-.08581	.01395	.03773	-.00467	-.00110	.00002
4.965	531.490	.01990	-.00041	.00114	-.09373	.01630	.03982	-.00476	-.00116	.00042
	GRADIENT	.00822	-.00010	.00084	-.00635	.00733	.00862	-.00107	-.00016	.00001

V41B-D9A (IA22:,ORBITER(04RC1) W/ET SEPARATING (TVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2753/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.046	625.500	400.30000	-.02751	.18545	.08087	442.57000	.00000	.00000	662.35000	.00000	.00000
-20.004	699.290	399.85000	.28421	.04266	-.10484	442.17000	.00000	.00000	661.74000	.00000	.00000
-19.961	799.700	399.69000	.38330	.04987	-.07737	441.83000	.00000	.00000	661.28000	.00000	.00000
-19.948	998.150	399.54000	.25529	.05602	-.07871	442.00000	.00000	.00000	661.49000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2757/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.031	474.930	400.16000	.31698	.06105	-.06660	439.35000	.00000	.00000	657.52000	.00000	.00000
-15.058	500.020	400.11000	-.14593	.11239	.00821	439.60000	.00000	.00000	657.90000	.00000	.00000
-15.019	549.390	399.93000	.77885	.05346	-.03073	439.83000	.00000	.00000	658.74000	.00000	.00000
-14.998	599.240	399.84000	.12784	.04905	-.05905	439.83000	.00000	.00000	658.32000	.00000	.00000
-14.961	698.580	399.81000	-.03772	.05231	-.06300	439.66000	.00000	.00000	658.02000	.00000	.00000
-14.966	798.610	399.84000	-.35365	.05155	-.06583	439.97000	.00000	.00000	658.46000	.00000	.00000
-15.093	1000.000	400.30000	-.10854	.04575	-.05903	440.02000	.00000	.00000	658.53000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2761/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.510	349.900	400.03000	.37261	.00005	-.13541	440.32000	.00000	.00000	658.98000	.00000	.00000
-10.558	399.780	400.12000	-.19948	.07273	-.01354	440.09000	.00000	.00000	658.63000	.00000	.00000
-10.508	449.230	400.05000	-1.04400	.02718	-.08575	440.31000	.00000	.00000	658.95000	.00000	.00000
-10.491	499.130	399.95000	-.84660	.04792	-.03500	439.83000	.00000	.00000	658.24000	.00000	.00000
-10.470	598.550	399.90000	-.44149	.04231	-.03795	439.85000	.00000	.00000	658.28000	.00000	.00000
-10.477	698.590	399.94000	.23647	.03949	-.03445	440.53000	.00000	.00000	659.30000	.00000	.00000
-10.525	799.300	400.07000	-.48923	.03590	-.02765	440.95000	.00000	.00000	659.93000	.00000	.00000
-10.571	899.940	400.27000	-.51295	.03167	-.02025	440.60000	.00000	.00000	659.40000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2390/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.021	167.060	400.02000	.21442	.02381	-.02958	433.46000	.00000	.00000	653.20000	.00000	.00000
-4.966	191.240	400.08000	-.11203	.01740	-.04438	433.35000	.00000	.00000	653.03000	.00000	.00000
-4.978	240.950	400.00000	.18631	.00762	-.06546	433.95000	.00000	.00000	652.44000	.00000	.00000
-5.005	291.400	400.08000	-.17084	.01849	-.06240	433.09000	.00000	.00000	652.65000	.00000	.00000
-4.968	390.760	400.02000	.04047	.01545	-.07035	433.92000	.00000	.00000	652.39000	.00000	.00000
-4.962	490.700	399.93000	.04956	.03785	-.02057	433.88000	.00000	.00000	652.34000	.00000	.00000
-4.947	590.960	400.04000	.16327	.03302	-.02645	433.78000	.00000	.00000	652.20000	.00000	.00000
-5.005	691.370	400.02000	.19453	.03400	-.02850	433.92000	.00000	.00000	652.39000	.00000	.00000
-5.036	791.840	400.03000	-.07741	.03240	-.02848	433.83000	.00000	.00000	652.33000	.00000	.00000
-4.999	991.310	400.13000	-.14910	.03031	-.02439	433.78000	.00000	.00000	652.18000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2396/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.010	11.651	400.14000	.01404	.01218	-.00824	433.50000	.00000	.00000	648.78000	.00000	.00000
.027	40.760	400.15000	.10194	.00773	-.00500	433.73000	.00000	.00000	649.11000	.00000	.00000
.047	90.310	400.16000	.09241	.01008	-.00165	433.43000	.00000	.00000	648.67000	.00000	.00000
.015	140.840	400.06000	.03225	.00405	-.01259	433.67000	.00000	.00000	649.03000	.00000	.00000
.005	191.150	400.09000	-.44366	-.01366	-.04935	433.65000	.00000	.00000	649.00000	.00000	.00000
.026	290.640	400.12000	-.04552	.00016	-.03403	433.71000	.00000	.00000	649.08000	.00000	.00000
.028	390.590	400.33000	.02141	.02029	.00349	433.65000	.00000	.00000	649.01000	.00000	.00000
.015	490.780	400.14000	.21482	.02054	.00031	433.78000	.00000	.00000	649.19000	.00000	.00000
-.013	591.430	400.23000	-.12765	.02045	-.00343	433.64000	.00000	.00000	648.98000	.00000	.00000
-.022	791.560	400.24000	-.08577	.01997	-.00406	433.87000	.00000	.00000	649.32000	.00000	.00000
-.002	871.280	400.26000	.16548	.01940	-.00304	433.71000	.00000	.00000	649.08000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2402/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.997	-58.460	400.03000	.17420	.01386	.00789	433.55000	.00000	.00000	651.84000	.00000	.00000
5.051	5.095	400.17000	-.09347	.01511	.00031	433.51000	.00000	.00000	651.78000	.00000	.00000
5.009	40.939	400.03000	.05194	.01033	-.00200	433.52000	.00000	.00000	651.81000	.00000	.00000
5.008	90.873	400.17000	-.14819	-.00250	-.02227	433.82000	.00000	.00000	652.20000	.00000	.00000
5.026	190.590	400.19000	-.02458	.00536	-.01008	433.76000	.00000	.00000	652.15000	.00000	.00000
5.037	290.390	400.29000	-.14625	-.00147	-.02648	433.41000	.00000	.00000	651.62000	.00000	.00000
5.019	390.730	400.28000	-.03733	.01894	.01056	433.62000	.00000	.00000	651.91000	.00000	.00000
4.965	531.490	400.19000	-.05706	.01835	.00236	433.44000	.00000	.00000	651.67000	.00000	.00000
	GRADIENT	78.54325	-.01952	.00297	.00169	65.47860	.00000	.00000	127.92793	.00000	.00000

V418-D9A ([A22),ORBITER(04RC1) W/ET SEPARATING (UVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2753/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.046	625.500	977.99000	977.99000	86.00000	977.99000	977.81000	7.00000	76.00000	37.60300	99.64200
-20.004	699.290	978.07000	978.07000	86.00000	978.07000	977.81000	7.00000	76.00000	33.17500	99.64200
-19.961	778.700	978.36000	978.36000	86.00000	978.36000	977.81000	7.00000	76.00000	28.52000	99.64200
-19.948	998.190	978.19000	978.19000	86.00000	978.19000	977.81000	7.00000	76.00000	17.75900	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2757/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.031	474.930	979.60000	979.60000	84.00000	979.60000	979.41000	6.00000	77.00000	25.04500	99.64200
-15.059	500.020	979.68000	979.68000	84.00000	979.68000	979.41000	6.00000	77.00000	24.35600	99.64200
-15.019	549.390	979.40000	979.40000	84.00000	979.40000	979.41000	6.00000	77.00000	21.15500	99.64200
-14.998	589.240	979.82000	979.82000	84.00000	979.82000	979.41000	6.00000	77.00000	17.04800	99.64200
-14.951	693.530	979.65000	979.65000	84.00000	979.65000	979.41000	6.00000	77.00000	12.44700	99.64200
-14.966	798.610	980.02000	980.02000	84.00000	980.02000	979.41000	6.00000	77.00000	8.22030	99.64200
-15.023	1000.000	980.13000	980.13000	84.00000	980.13000	979.41000	6.00000	77.00000	4.82160	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2761/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.510	349.900	980.31000	980.31000	85.00000	980.31000	980.12000	5.00000	77.00000	19.57000	99.64200
-10.558	399.780	980.27000	980.27000	85.00000	980.27000	980.12000	5.00000	77.00000	19.53300	99.64200
-10.508	449.230	980.77000	980.77000	85.00000	980.77000	980.12000	5.00000	77.00000	17.65100	99.64200
-10.491	499.130	980.67000	980.67000	85.00000	980.67000	980.12000	5.00000	77.00000	14.85500	99.64200
-10.470	598.550	980.73000	980.73000	85.00000	980.73000	980.12000	5.00000	77.00000	10.00800	99.64200
-10.477	698.590	980.78000	980.78000	85.00000	980.78000	980.12000	5.00000	77.00000	8.20950	99.64200
-10.525	799.300	980.75000	980.75000	85.00000	980.75000	980.12000	5.00000	77.00000	6.59770	99.64200
-10.571	899.940	980.93000	980.93000	85.00000	980.93000	980.12000	5.00000	77.00000	4.84780	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-DSA (IA22),ORBITER(O4R:1) W/ET SEPARATING (UVK033) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2390/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.021	167.060	977.50000	977.50000	85.00000	977.50000	977.28999	69.00000	76.00000	3.33530	99.76800
-4.966	191.240	977.26000	977.26000	85.00000	977.26000	977.28999	69.00000	76.00000	2.51150	99.76800
-4.978	240.950	977.33000	977.33000	85.00000	977.33000	977.28999	69.00000	76.00000	2.65920	99.76800
-5.005	291.400	977.16000	977.16000	85.00000	977.16000	977.28999	69.00000	76.00000	5.23660	99.76800
-4.968	390.760	977.26000	977.26000	85.00000	977.26000	977.28999	69.00000	76.00000	6.94370	99.76800
-4.962	490.700	977.19000	977.19000	85.00000	977.19000	977.28999	69.00000	76.00000	6.29520	99.76800
-4.947	590.960	976.97000	976.97000	85.00000	976.97000	977.28999	69.00000	76.00000	3.82710	99.76800
-5.005	691.370	976.78000	976.78000	85.00000	976.78000	977.28999	69.00000	76.00000	1.36430	99.76800
-5.036	791.840	976.69000	976.69000	85.00000	976.69000	977.28999	69.00000	76.00000	-.70227	99.76800
-4.999	991.310	976.94000	976.94000	85.00000	976.94000	977.28999	69.00000	76.00000	-2.85660	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2396/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.010	11.651	976.64000	976.64000	82.00000	976.64000	976.42999	67.00000	75.00000	-5.84500	99.76800
.027	40.760	976.66000	976.66000	82.00000	976.66000	976.42999	67.00000	75.00000	-5.89990	99.76800
.047	90.310	976.48000	976.48000	82.00000	976.48000	976.42999	67.00000	75.00000	-6.12230	99.76800
.015	140.840	976.54000	976.54000	82.00000	976.54000	976.42999	67.00000	75.00000	-6.32630	99.76800
.005	191.150	976.49000	976.49000	82.00000	976.49000	976.42999	67.00000	75.00000	-5.09970	99.76800
.026	290.640	976.62000	976.62000	82.00000	976.62000	976.42999	67.00000	75.00000	-2.47080	99.76800
.028	390.590	976.51000	976.51000	82.00000	976.51000	976.42999	67.00000	75.00000	-1.09480	99.76800
.015	490.780	976.78000	976.78000	82.00000	976.78000	976.42999	67.00000	75.00000	-.94911	99.76800
-.013	591.430	976.46000	976.46000	82.00000	976.46000	976.42999	67.00000	75.00000	-1.92100	99.76800
-.022	791.560	976.50000	976.50000	82.00000	976.50000	976.42999	67.00000	75.00000	-3.50520	99.76800
-.002	871.280	976.62000	976.62000	82.00000	976.62000	976.42999	67.00000	75.00000	-4.62820	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2402/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.997	-58.460	974.03000	974.03000	81.00000	974.03000	973.82000	66.00000	74.00000	-8.28100	99.89400
5.051	5.095	973.93000	973.93000	81.00000	973.93000	973.82000	66.00000	74.00000	-8.33390	99.89400
5.009	40.939	973.93000	973.93000	81.00000	973.93000	973.82000	66.00000	74.00000	-8.63110	99.89400
5.008	90.973	973.79000	973.79000	81.00000	973.79000	973.82000	66.00000	74.00000	-8.80760	99.89400
5.026	190.590	974.00000	974.00000	81.00000	974.00000	973.82000	66.00000	74.00000	-7.85770	99.89400
5.037	290.390	973.70000	973.70000	81.00000	973.70000	973.82000	66.00000	74.00000	-6.66350	99.89400
5.019	390.730	973.70000	973.70000	81.00000	973.70000	973.82000	66.00000	74.00000	-5.24910	99.89400
4.965	531.490	973.77000	973.77000	81.00000	973.77000	973.82000	66.00000	74.00000	-5.33950	99.89400
	GRADIENT	191.15782	191.15782	15.89825	191.15782	191.13623	12.95413	14.52433	-1.63672	19.60667

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK033) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2753/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.046	625.500	400.30000	-.02751	-20.05300	-.00020	-.42736	-.03821	.01679	.00101	.00097	.11266
-20.004	699.290	399.85000	.28421	-19.98300	.00720	-.43438	-.02590	.01843	.00006	.00072	.11717
-19.961	798.700	399.69000	.38330	-19.94600	.00820	-.45528	.00343	.01914	-.00153	.00052	.13554
-19.948	998.190	399.54000	.29529	-19.92900	.00967	-.45049	.02896	.01993	-.00394	.00090	.16511
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2757/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.031	474.930	400.16000	.31698	-15.03300	.00856	-.35653	-.01405	.01720	-.00066	.00081	.11674
-15.058	500.020	400.11000	-.14593	-15.05500	-.00691	-.31360	-.03563	.01125	.00210	.00050	.10075
-15.019	549.390	399.99000	.77886	-15.01200	.01385	-.30363	-.03695	.01240	.00153	.00044	.10338
-14.998	599.240	399.94000	.12764	-14.98500	.00456	-.31682	-.02378	.01401	.00027	.00041	.10951
-14.961	698.580	399.81000	-.09772	-14.94300	.00046	-.33612	.00283	.01438	-.00081	.00023	.12332
-14.956	799.610	399.84000	-.39565	-14.94700	-.00336	-.34696	.02378	.01438	-.00171	.00024	.14184
-15.093	1000.000	400.30000	-.10654	-15.07400	-.00486	-.23402	-.03053	.00682	.00108	-.00006	.10489
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2761/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.510	349.900	400.03000	.37261	-10.49900	.00593	-.29558	-.00074	.00974	.00018	.00047	.11930
-10.558	399.780	400.12000	-.19948	-10.54800	-.00502	-.23705	-.02923	.00984	.00169	.00036	.09815
-10.508	449.230	400.05000	-1.04400	-10.49700	-.01284	-.21948	-.03029	.00908	.00132	.00019	.09741
-10.491	499.130	399.98000	-.84660	-10.47600	-.01035	-.22885	-.01906	.01124	.00069	.00015	.10322
-10.470	598.550	399.90000	-.44149	-10.45300	-.00347	-.24046	.00214	.01284	-.00058	.00006	.11343
-10.477	698.590	399.94000	.23547	-10.46200	.00499	-.24211	.01742	.01256	-.00116	-.00001	.12399
-10.525	799.300	400.07000	-.48923	-10.50600	-.00622	-.20495	.00528	.01158	-.00089	.00015	.12222
-10.571	999.940	400.27000	-.51295	-10.55200	-.00959	-.14043	-.03112	.00715	.00114	-.00017	.09820
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2390/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.021	167.060	400.02000	.21442	-4.98620	.00276	-.17725	-.02240	.00015	.00125	.00018	.10349
-4.965	191.240	400.08000	-.11203	-4.93530	.00185	-.18413	-.01410	.00264	.00023	.00022	.10876
-4.978	240.550	400.00000	.18331	-4.98460	.00335	-.17736	-.00777	.00690	-.00068	.00021	.10850
-5.005	291.400	400.02000	-.17084	-4.90330	.00024	-.14775	-.01775	.00316	-.00070	.00028	.09428
-4.958	390.760	400.02000	.04047	-4.98240	-.00353	-.13733	-.00543	.00276	.00093	.00023	.09515
-4.992	490.700	400.02000	.04933	-4.95670	.00316	-.14309	.00035	.00307	-.00008	.00013	.10393
-4.947	590.930	400.04000	.10327	-4.92030	.00487	-.13705	.01050	.00458	-.00053	.00018	.10901
-5.005	691.370	400.02000	.15453	-4.90330	.00437	-.10459	.00318	.00514	-.00078	.00024	.10554
-5.036	791.840	400.08000	-.07741	-5.01760	-.00114	-.08350	-.01464	.00273	.00039	-.00000	.08822
-4.939	991.310	400.13000	-.14810	-4.88030	-.00049	-.08328	-.01823	.00209	.00045	-.00003	.09208
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2396/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.010	11.651	400.14000	.01404	.04533	.00294	-.11083	-.04030	.00479	.00015	.00033	.10122
.027	40.760	400.15000	.10194	.07548	.00316	-.10488	-.02891	.00358	.00043	.00021	.10030
.047	90.310	400.16000	.09241	.08441	.00398	-.10287	-.01077	.00190	.00013	.00004	.10176
.015	140.840	400.08000	.03225	.04423	.00507	-.09232	-.00888	.00394	-.00093	-.00002	.09837
.005	191.150	400.02000	-.44336	.02043	-.00548	-.07833	-.00393	.00593	-.00106	.00011	.09334
.026	290.640	400.12000	-.04552	.04543	-.00274	-.08005	.00253	.00405	.00058	.00018	.09239
.028	390.580	400.33000	.02141	.04631	.00248	-.07086	.01797	.00284	.00011	.00003	.09576
.015	490.720	400.14000	.21402	.05525	.00490	-.06414	.05053	.00332	-.00022	.00012	.10402
-.013	591.430	400.23000	-.12788	.00722	.00602	-.03187	.01516	.00340	-.00032	-.00000	.09598
-.022	791.560	400.24000	-.08377	-.00227	.00033	-.00206	.00132	.00215	.00025	-.00003	.08932
-.002	871.280	400.25000	.16546	.01741	.00501	-.00853	.00131	.00229	.00013	-.00003	.08849
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2402/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.997	-58.460	400.03000	.17420	5.04510	.00331	-.04484	-.02258	.00534	.00147	.00002	.10485
5.051	5.093	400.17000	-.08047	5.03220	.00377	-.04882	-.00105	.00311	-.00093	-.00010	.09774
5.009	40.939	400.03000	.05194	5.04460	.00331	-.03833	.00332	.00503	-.00114	-.00012	.09306
5.008	90.873	400.17000	-.14819	5.03220	.00105	-.01923	.00385	.00406	-.00136	.00002	.08833
5.026	190.590	400.19000	-.02459	5.04830	-.00163	-.00857	.01447	.00222	.00033	.00012	.09362
5.037	290.390	400.23000	-.14285	5.05480	.00330	-.01106	.03079	.00484	-.00039	.00007	.09810
5.019	390.730	400.28000	-.03733	5.03700	.00153	-.00235	.03809	.00382	-.00106	-.00002	.10179
4.965	531.490	400.19000	-.05706	4.98830	.00073	.04139	.02072	.00149	-.00033	-.00004	.08518
	GRADIENT	78.54325	-.01552	.99587	.00074	-.00909	-.00021	.00120	-.00018	-.00002	.01918

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (RVK034) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2754/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.022	625.320	600.18000	.33807	.00922	.29581	-.01239	-.00049	-.00025	.00075	-.02888	.23344
-20.043	700.340	600.30000	.20248	.00297	.25970	-.00110	-.00160	-.00014	.00059	-.02368	.23373
-20.006	799.540	600.05000	.21000	.00453	.23239	.00445	-.00168	-.00011	.00059	-.02072	.23294
-20.006	999.700	600.03000	.05302	.00153	.23048	.00502	-.00193	-.00010	.00059	-.02048	.23341
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2758/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.003	474.720	600.09000	.16563	.00263	.31138	-.01383	-.00050	-.00025	.00068	-.02658	.23396
-15.010	499.740	600.19000	.24318	.00565	.28275	-.01028	-.00125	-.00021	.00063	-.02721	.23376
-15.019	549.850	600.20000	-.00395	.00329	.26197	-.00223	-.00175	-.00013	.00053	-.02424	.23393
-15.051	600.490	600.42000	-.32227	-.00493	.24605	.00097	-.00171	-.00013	.00025	-.02227	.23355
-15.061	700.510	600.43000	.42419	.00599	.22914	.00493	-.00181	-.00014	.00059	-.02001	.23355
-14.992	799.770	600.11000	.43128	.00959	.22946	.00497	-.00175	-.00013	.00059	-.02019	.23378
-14.981	998.990	600.01000	.25705	.00804	.22932	.00499	-.00180	-.00014	.00059	-.02009	.23364
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2762/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.497	349.770	600.15000	-.42497	-.00308	.37290	-.01494	-.00119	-.00027	.00071	-.01860	.23447
-10.506	399.800	600.19000	.43680	.00675	.30383	-.01034	-.00100	-.00026	.00049	-.02361	.23423
-10.519	449.870	600.11000	-.34739	-.00225	.25690	-.00303	-.00189	-.00012	.00046	-.02400	.23402
-10.556	500.390	600.32000	.23973	.00210	.24538	.00075	-.00167	-.00015	.00034	-.02252	.23471
-10.553	600.350	600.23000	.35811	.00542	.23183	.00452	-.00209	-.00015	.00058	-.02025	.23414
-10.538	700.100	600.24000	-.24076	-.00170	.23003	.00493	-.00191	-.00014	.00058	-.02017	.23361
-10.437	798.700	600.02000	-.02885	.00534	.22847	.00491	-.00182	-.00016	.00060	-.02010	.23429
-10.511	999.230	600.07000	-.75197	-.00832	.23007	.00492	-.00198	-.00016	.00058	-.02050	.23420
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (1A22),ORBITER(04RC1) W/ET SEPARATING (SVK034) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2754/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.022	625.320	.00500	-.00084	.00922	-.03678	-.00146	.01499	.00688	-.00118	.00079
-20.043	700.340	.01200	-.00079	.00297	-.07339	.00966	.02031	.00580	-.00108	.00063
-20.006	799.540	.01900	-.00075	.00453	-.10144	.01542	.02330	.00572	-.00105	.00064
-20.006	999.700	.01900	-.00075	.00153	-.10305	.01598	.02350	.00546	-.00104	.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2758/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.003	474.720	.00500	-.00085	.00263	-.02036	-.00293	.01717	.00685	-.00119	.00073
-15.010	499.740	.00800	-.00084	.00565	-.04971	.00061	.01650	.00609	-.00115	.00067
-15.019	549.850	.01400	-.00082	.00329	-.06937	.00868	.01954	.00561	-.00106	.00057
-15.051	600.490	.01600	-.00078	-.00493	-.08554	.01187	.02147	.00564	-.00106	.00030
-15.061	700.510	.01900	-.00071	.00599	-.10251	.01584	.02374	.00554	-.00108	.00064
-14.992	799.770	.01900	-.00073	.00959	-.10278	.01588	.02363	.00561	-.00107	.00063
-14.981	999.990	.01900	-.00072	.00804	-.10271	.01590	.02370	.00556	-.00107	.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2762/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.497	349.770	.00300	-.00082	-.00308	.04015	-.00400	.02529	.00618	-.00120	.00075
-10.506	399.800	.00800	-.00079	.00675	-.02839	.00059	.02029	.00637	-.00120	.00054
-10.519	449.870	.01300	-.00084	-.00225	-.07502	.00787	.01977	.00547	-.00106	.00051
-10.556	500.390	.01600	-.00076	.00210	-.08719	.01169	.02134	.00570	-.00109	.00038
-10.553	600.360	.01900	-.00070	.00542	-.10030	.01545	.02353	.00529	-.00109	.00062
-10.538	700.100	.01900	-.00072	-.00170	-.10233	.01586	.02370	.00546	-.00108	.00063
-10.437	758.700	.01900	-.00069	.00534	-.10278	.01583	.02372	.00554	-.00110	.00064
-10.511	999.230	.02000	-.00069	-.00852	-.10251	.01585	.02336	.00539	-.00110	.00062
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK034) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2754/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.022	625.320	600.18000	.33807	.03753	-.06443	441.25000	.00000	.00000	658.88000	.00000	.00000
-20.043	700.340	600.30000	.20248	.04282	-.05885	44?.57000	.00000	.00000	660.85000	.00000	.00000
-20.006	799.540	600.05000	.21000	.04616	-.06095	44?.88000	.00000	.00000	661.31000	.00000	.00000
-20.006	999.700	600.03000	.05302	.05245	-.07119	44?.50000	.00000	.00000	660.74000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2759/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.003	474.720	600.09000	.16563	.06405	.03295	439.12000	.00000	.00000	657.18000	.00000	.00000
-15.010	499.740	600.19000	.24318	.03052	-.02406	438.75000	.00000	.00000	655.63000	.00000	.00000
-15.019	549.850	600.20000	-.00395	.02950	-.02663	439.38000	.00000	.00000	657.57000	.00000	.00000
-15.051	600.490	600.42000	-.32827	.02281	-.02347	439.00000	.00000	.00000	657.09000	.00000	.00000
-15.061	700.510	600.43000	.42419	.03048	-.02647	439.15000	.00000	.00000	657.22000	.00000	.00000
-14.992	799.770	600.11000	.43128	.03178	-.02697	439.78000	.00000	.00000	658.18000	.00000	.00000
-14.981	998.990	600.01000	.25705	.03647	-.03301	438.50000	.00000	.00000	657.76000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2762/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.497	349.770	600.15000	-.42497	.00546	-.06645	440.46000	.00000	.00000	659.19000	.00000	.00000
-10.506	399.800	600.19000	.43390	.04362	.01917	440.55000	.00000	.00000	659.32000	.00000	.00000
-10.519	449.870	600.11000	-.34739	.03112	.00594	439.37000	.00000	.00000	657.55000	.00000	.00000
-10.556	500.390	600.32000	.23973	.02209	-.00356	440.24000	.00000	.00000	658.85000	.00000	.00000
-10.553	600.360	600.28000	.35811	.02202	-.00374	440.43000	.00000	.00000	659.14000	.00000	.00000
-10.538	700.100	600.24000	-.24076	.02273	-.00516	440.35000	.00000	.00000	659.02000	.00000	.00000
-10.437	798.700	600.02000	-.02896	.02383	-.00715	439.80000	.00000	.00000	658.20000	.00000	.00000
-10.511	999.230	600.07000	-.75197	.02630	-.01106	440.24000	.00000	.00000	658.85000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK034) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA	=	.000	BETA	=	.000
DBETA	=	.000	X	=	600.000
Y	=	.000	ELEVON	=	.000
UMBLDR	=	.000	RCS	=	1.000
GAS	=	1.000			

RUN NO. 2754/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.022	625.320	978.21000	978.21000	86.00000	978.21000	977.85999	7.00000	76.00000	-.25366	99.64200
-20.043	700.340	978.70000	978.70000	86.00000	978.70000	977.85999	7.00000	76.00000	1.07760	99.64200
-20.006	799.640	978.41000	978.41000	86.00000	978.41000	977.85999	7.00000	76.00000	3.71080	99.64200
-20.006	999.700	978.05000	978.05000	86.00000	978.05000	977.85999	7.00000	76.00000	9.10420	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2758/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.003	474.720	980.06000	980.06000	84.00000	980.06000	979.27000	70.00000	77.00000	-1.11410	99.64200
-15.010	499.740	979.72000	979.72000	84.00000	979.72000	979.27000	70.00000	77.00000	-2.09910	99.64200
-15.019	549.850	980.15000	980.15000	84.00000	980.15000	979.27000	70.00000	77.00000	-1.44840	99.64200
-15.051	600.490	979.92000	979.92000	84.00000	979.92000	979.27000	70.00000	77.00000	-.53799	99.64200
-15.061	700.510	980.12000	980.12000	84.00000	980.12000	979.27000	70.00000	77.00000	.49677	99.64200
-14.992	799.770	980.09000	980.09000	84.00000	980.09000	979.27000	70.00000	77.00000	1.52100	99.64200
-14.981	998.990	979.46000	979.46000	84.00000	979.46000	979.27000	70.00000	77.00000	2.54430	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2762/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.497	349.770	981.11000	981.11000	85.00000	981.11000	980.85999	70.00000	77.00000	3.60130	99.64200
-10.506	399.800	980.82000	980.82000	85.00000	980.82000	980.85999	70.00000	77.00000	-.58242	99.64200
-10.519	449.870	981.10000	981.10000	85.00000	981.10000	980.85999	70.00000	77.00000	-1.21930	99.64200
-10.556	500.390	981.09000	981.09000	85.00000	981.09000	980.85999	70.00000	77.00000	-.73816	99.64200
-10.553	600.350	981.04000	981.04000	85.00000	981.04000	980.85999	70.00000	77.00000	.11007	99.64200
-10.538	700.100	980.83000	980.83000	85.00000	980.83000	980.85999	70.00000	77.00000	.88389	99.64200
-10.437	799.700	981.09000	981.09000	85.00000	981.09000	980.85999	70.00000	77.00000	1.74970	99.64200
-10.511	899.230	981.09000	981.09000	85.00000	981.09000	980.85999	70.00000	77.00000	2.83180	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2754/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.022	625.320	600.18000	.33807	-20.01600	.00839	-.44008	-.03768	.02200	-.00115	.00077	.11643
-20.043	700.340	600.30000	.20248	-20.02200	.00218	-.44214	-.02558	.01886	.00004	.00074	.12185
-20.006	799.540	600.05000	.21000	-19.99700	.00378	-.44392	-.01536	.01837	-.00067	.00060	.12549
-20.006	999.700	600.03000	.05302	-19.98700	.00078	-.47669	.03518	.01878	-.00318	.00066	.16561
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2758/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.003	474.720	600.09000	.16563	-14.99700	.00178	-.35714	-.02879	.01291	.00060	.00051	.11575
-15.010	499.740	600.19000	.24318	-15.00200	.00481	-.33950	-.03545	.01668	-.00017	.00035	.10594
-15.019	549.650	600.20000	-.00335	-15.00500	.00247	-.32017	-.03638	.01578	-.00015	.00042	.10927
-15.051	600.490	600.42000	-.32227	-15.03500	-.00571	-.31453	-.03181	.01191	.00086	.00024	.10577
-15.061	700.510	600.43000	.42419	-15.04200	.00518	-.35343	-.01285	.01452	-.00019	.00028	.11528
-14.992	799.770	600.11000	.43128	-14.97300	.00806	-.33031	.01120	.01389	-.00111	.00016	.12899
-14.991	958.990	600.01000	.25705	-14.99200	.00733	-.28948	-.01006	.01072	-.00008	.00014	.12426
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2762/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.497	349.770	600.15000	-.42497	-10.48200	-.00391	-.30960	-.01361	.00593	.00175	.00021	.[illegible]
-10.506	399.800	600.19000	.43600	-10.49900	.00595	-.27197	-.02307	.00735	.00278	.00023	.10832
-10.519	449.870	600.11000	-.34739	-10.50600	-.00309	-.23535	-.03357	.00853	.00[illegible]	.00025	.09345
-10.506	500.390	600.22000	.23973	-10.54000	.00135	-.22673	-.03185	.00829	.00161	.00018	.09735
-10.553	600.360	600.22000	.35311	-10.53400	00472	-.23513	-.01093	.01145	.00012	.00004	[illegible]
-10.538	700.100	600.24000	-.24076	-10.51900	-.00242	-.24112	.00308	.01207	-.00088	-.000[illegible]	
-10.437	798.700	600.02000	-.02206	-10.41800	.00465	-.23024	.01629	.01192	-.00118	-.00000	[illegible]
-10.511	999.230	600.07000	-.75197	-10.49100	-.00921	-.13944	-.03140	.00779	.00109	-.00020	.09828
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = 3.000 X = .000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2391/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.002	166.590	.09913	54.24400	2.98950	.34028	.02405	-.01038	.00020	-.00197	.00896	.23192
-4.993	191.510	-.00403	53.88400	2.99510	.35089	.02281	-.01509	.00021	-.00159	.00415	.23336
-4.988	241.170	.12685	54.08900	2.99740	.33682	.01540	-.01239	.00061	-.00178	-.00155	.23358
-4.972	290.880	-.01306	53.60900	2.98940	.30426	.00778	-.01345	.00035	-.00134	-.00703	.23268
-4.950	390.740	.03388	53.90300	2.99310	.28747	.00465	-.01239	.00032	-.00026	-.00499	.23387
-4.978	490.620	.12492	54.03400	3.00160	.29156	-.00041	-.01100	-.00024	.00025	-.00259	.23369
-5.030	591.850	.12427	54.10900	2.98040	.24209	.00186	-.01124	-.00006	-.00020	-.00612	.23288
-5.004	691.710	.19189	54.12000	2.99790	.23553	.00337	-.01169	-.00011	.00028	-.00438	.23306
-4.997	791.380	.14634	53.75800	2.99270	.23384	.00449	-.01141	-.00021	.00034	-.00364	.23310
-4.995	991.220	.20143	53.93800	2.99350	.23324	.00446	-.01143	-.00020	.00035	-.00361	.23298
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2397/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.076	13.353	.05086	55.67200	3.04930	.21605	.00521	-.01323	-.00054	.00008	.00152	.23389
-.041	42.387	.08105	54.12800	2.99330	.23765	.01209	-.01244	.00166	-.00026	.00587	.23321
-.016	91.953	.06206	53.63200	2.99160	.23973	.01620	-.01266	.00049	-.00068	.00841	.23354
-.001	141.240	.01409	53.78800	2.99100	.23490	.01906	-.01366	.00026	-.00040	-.00012	.23363
.017	190.980	.03435	54.20200	2.99310	.27300	.01820	-.01215	.00040	-.00108	-.00422	.23360
.032	290.510	.03839	53.92300	2.98830	.26771	.01128	-.01270	.00013	-.00033	-.00440	.23354
.016	391.050	.04085	54.00400	3.00110	.27003	.00423	-.01215	.00002	-.00018	-.00160	.23408
-.030	491.730	.00577	53.93400	2.99450	.25420	.00308	-.01199	-.00016	.00028	-.00501	.23322
-.021	591.510	.07604	53.72800	2.99120	24197	.00377	-.01206	-.00015	.00024	-.00512	.23380
-.012	791.350	.07450	53.93600	2.98860	.23571	.00344	-.01198	-.00025	.00039	-.00377	.23397
-.009	871.380	.08923	53.95700	2.99450	.23556	.00543	-.01205	-.00023	.00040	-.00378	.23355
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2403/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
5.032	-59.440	1.23530	55.61200	3.04370	.19912	-.00515	-.01393	-.00124	-.00024	-.00969	.23326
4.996	3.076	-.05354	54.69400	3.00130	.22502	.01090	-.01411	.00153	.00063	.00485	.23322
4.994	41.560	.12298	53.74400	2.99480	.24334	.01300	-.01404	.00062	-.00045	.00738	.23352
5.011	91.213	.07673	53.98500	2.99330	.25958	.01822	-.01184	.00049	.00023	-.00066	.23305
5.039	190.390	.09328	54.13700	3.00570	.25422	.01482	-.01245	-.00014	-.00044	-.00485	.23257
5.002	290.830	.05142	54.19400	3.00410	.26717	.00833	-.01321	.00024	.00007	-.00350	.23349
4.972	391.520	.03251	53.57200	2.99830	.26997	.00211	-.01189	-.00025	.00025	-.00282	.23320
4.987	531.280	.10770	54.08500	2.99440	.24154	.00393	-.01217	-.00017	.00020	-.00496	.23300
	GRADIENT	-.00653	6.77092	.37162	.02786	.00135	-.00175	.00019	.00009	.00060	.02888

V41B-D9A (IA22),ORBITER(04?C1) W/ET SEPARATING (SVK035) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2391/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.002	103.630	.04150	-.00050	2.99350	.01157	.03465	.05231	-.00309	-.00073	-.00192
-4.993	191.510	.04100	-.00030	2.99510	.03213	.03841	.04782	-.00780	-.00071	-.00154
-4.988	241.170	.03970	-.00110	2.99740	.00021	.03020	.04181	-.00511	-.00032	-.00173
-4.972	293.820	.03830	-.00100	2.99540	-.02414	.01850	.03882	-.00817	-.00057	-.00130
-4.980	320.740	.02160	-.00100	2.99310	-.04110	.01545	.03338	-.00510	-.00051	-.00022
-4.978	490.820	.01870	-.00080	3.00160	-.04718	.01040	.04076	-.00372	-.00117	.00029
-5.030	591.630	.01700	-.00070	2.99940	-.00231	.01236	.03723	-.00383	-.00089	-.00016
-5.004	691.710	.01000	-.00020	2.99700	-.00103	.01409	.03003	-.00441	-.00104	.00033
-4.997	791.330	.01030	-.00020	2.99970	-.00112	.01550	.03074	-.00413	-.00114	.00039
-4.993	891.220	.01000	-.00050	2.99350	-.00231	.01536	.03975	-.00415	-.00113	.00039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2397/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.076	13.353	.01975	-.00010	3.04930	-.11306	.01602	.04493	-.00593	-.00147	.00012
-.041	42.337	.02003	-.00230	2.99330	-.09130	.02330	.04925	-.00515	.00073	-.00021
-.016	91.933	.02313	-.00100	2.99150	-.05033	.02001	.05160	-.00537	-.00044	-.00064
-.001	141.240	.02512	-.00070	2.99100	-.03414	.02007	.04827	-.00637	-.00057	-.00036
.017	190.980	.02346	-.00100	2.99310	-.02230	.02200	.03915	-.00485	-.00052	-.00104
.032	290.510	.02374	-.00070	2.99330	-.00127	.02207	.03003	-.00541	-.00080	-.00029
.016	391.050	.02081	-.00070	3.00110	-.05039	.01504	.04179	-.00496	-.00091	-.00013
-.030	491.730	.01789	-.00050	2.99450	-.07438	.01209	.03939	-.00470	-.00108	.00032
-.021	591.510	.01839	-.00050	2.99120	-.08037	.01459	.03826	-.00477	-.00107	.00029
-.012	791.350	.01850	-.00040	2.99030	-.09032	.01625	.03931	-.00469	-.00118	.00044
-.009	871.380	.01823	-.00040	2.99450	-.09234	.01623	.03930	-.00476	-.00115	.00044
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2403/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.032	-59.440	.00050	.00060	3.04370	-.13004	.00565	.03372	-.00664	-.00217	-.00020
4.996	8.076	.02430	-.00220	3.00130	-.10430	.02172	.04227	-.00692	.00060	.00068
4.994	41.630	.02710	-.00130	2.99130	-.08039	.02231	.05080	-.00674	-.00031	-.00040
5.011	91.213	.03350	-.00100	2.99330	-.05043	.02203	.04273	-.00455	-.00044	.00028
5.039	190.220	.03220	-.00040	3.00370	-.07476	.02332	.03234	-.00516	-.00107	-.00040
5.002	290.830	.03350	-.00050	3.00410	-.08159	.01914	.02991	-.00592	-.00069	.00011
4.972	391.520	.01640	-.00050	2.99330	-.05506	.01293	.04057	-.00460	-.00117	.00030
4.987	531.290	.01870	-.00050	2.99440	-.08740	.01464	.03842	-.00488	-.00110	.00024
	GRADIENT	.00301	-.00027	.37162	-.01290	.00269	.00598	-.00084	.00007	.00008

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2391/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.002	166.590	.09913	54.24400	-.05551	-.24235	435.11000	.00000	.00000	651.17000	.00000	.00000
-4.993	191.510	-.00483	53.65400	.07263	-.01801	435.27000	.00000	.00000	651.42000	.00000	.00000
-4.989	241.170	.12695	54.06900	.02237	-.03021	435.12000	.00000	.00000	651.19000	.00000	.00000
-4.972	290.630	-.01305	53.60900	.03948	-.03993	435.10000	.00000	.00000	651.16000	.00000	.00000
-4.980	390.740	.03800	53.90800	.02535	-.05037	435.32000	.00000	.00000	651.50000	.00000	.00000
-4.978	490.820	.12492	54.03400	.02097	-.06086	435.15000	.00000	.00000	651.23000	.00000	.00000
-5.030	591.850	.12427	54.10000	.04213	-.01407	435.05000	.00000	.00000	651.15000	.00000	.00000
-5.004	691.710	.19103	54.12000	.03345	-.02534	435.24000	.00000	.00000	651.37000	.00000	.00000
-4.997	791.380	.14034	53.72000	.03485	-.02536	435.31000	.00000	.00000	651.48000	.00000	.00000
-4.995	991.220	.20143	53.93000	.03181	-.02120	435.18000	.00000	.00000	651.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2397/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.076	13.353	.05005	55.67200	-.01602	-.02331	435.05000	.00000	.00000	651.52000	.00000	.00000
-.041	42.397	.03105	54.12200	.03431	.02013	435.42000	.00000	.00000	651.84000	.00000	.00000
-.016	91.953	.03205	53.93000	.03005	.00339	435.31000	.00000	.00000	651.83000	.00000	.00000
-.001	141.240	.01409	53.74000	.00530	-.01042	435.05000	.00000	.00000	651.84000	.00000	.00000
.017	190.980	.03465	54.03300	.01759	.01034	435.37000	.00000	.00000	651.56000	.00000	.00000
.032	290.510	.03003	53.93300	.01216	-.00302	435.42000	.00000	.00000	651.70000	.00000	.00000
.016	391.050	.04005	54.03400	.00431	-.02707	435.48000	.00000	.00000	651.92000	.00000	.00000
-.030	491.730	.03977	53.93400	.01006	.00123	435.61000	.00000	.00000	651.83000	.00000	.00000
-.021	591.510	.07034	53.72000	.02003	.00309	435.42000	.00000	.00000	651.63000	.00000	.00000
-.012	791.350	.07450	53.93000	.02006	-.00183	435.41000	.00000	.00000	651.63000	.00000	.00000
-.009	871.380	.08023	53.95700	.02059	-.00197	435.33000	.00000	.00000	651.56000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2403/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.032	-59.440	1.25930	55.61200	.01620	.00206	435.71000	.00000	.00000	652.07000	.00000	.00000
4.996	8.076	-.03004	54.02400	.01717	-.00721	435.70000	.00000	.00000	652.19000	.00000	.00000
4.994	41.630	.12803	53.74400	.01090	-.01206	435.60000	.00000	.00000	652.21000	.00000	.00000
5.011	91.213	.07773	53.93000	.02029	.00531	435.55000	.00000	.00000	651.98000	.00000	.00000
5.039	190.330	.09828	54.13700	.01701	.00254	435.42000	.00000	.00000	651.71000	.00000	.00000
5.002	290.830	.05142	54.19400	.00349	-.00974	435.71000	.00000	.00000	652.07000	.00000	.00000
4.972	391.520	.03251	53.67200	.00134	-.02000	435.55000	.00000	.00000	651.83000	.00000	.00000
4.987	531.290	.10770	54.05300	.01648	.00496	435.42000	.00000	.00000	651.64000	.00000	.00000
	GRADIENT	-.00663	6.77092	.00213	-.00089	53.93783	.00000	.00000	80.75356	.00000	.00000

V41B-D9A (IA22),ORBITER(G1RC1) W/ET SEPARATING (UVK035) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	3.000	X =	.000		
Y =	54.000	ELEVON =	.000		
UMSLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2391/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
-5.002	166.590	976.40000	976.40000	84.00000	976.40000	976.10009	69.00000	76.00000	10.60500	99.76900
-4.993	191.510	976.23000	976.20000	84.00000	976.23000	976.10009	69.00000	76.00000	15.07300	99.76800
-4.989	241.170	976.43000	976.43000	84.00000	976.43000	976.10009	69.00000	76.00000	15.07100	99.76900
-4.972	290.630	976.33000	976.33000	84.00000	976.33000	976.10009	69.00000	76.00000	13.17900	99.76900
-4.950	390.740	976.40000	976.40000	84.00000	976.40000	976.10009	69.00000	76.00000	11.83900	99.76900
-4.979	490.930	976.40000	976.40000	84.00000	976.40000	976.10009	69.00000	76.00000	9.64750	99.76900
-5.030	591.050	976.37000	976.37000	84.00000	976.37000	976.10009	69.00000	76.00000	7.50040	99.76900
-5.004	691.710	976.70000	976.70000	84.00000	976.70000	976.10009	69.00000	76.00000	4.82460	99.76800
-4.997	791.220	976.33000	976.33000	84.00000	976.33000	976.10009	69.00000	76.00000	2.22010	99.76800
-4.995	931.220	976.51000	976.51000	84.00000	976.51000	976.10009	69.00000	76.00000	-.30445	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2397/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
-.076	13.353	976.63000	976.63000	81.00000	976.63000	976.43009	66.00000	74.00000	-8.03590	99.76800
-.041	42.387	976.14000	976.14000	81.00000	976.14000	976.43009	66.00000	74.00000	-7.60970	99.76800
-.016	91.983	976.43000	976.43000	81.00000	976.43000	976.43009	66.00000	74.00000	-6.18170	99.76800
-.001	141.240	976.44000	976.44000	81.00000	976.44000	976.43009	66.00000	74.00000	-5.53470	99.76800
.017	190.920	976.03000	976.02000	81.00000	976.03000	976.43009	66.00000	74.00000	-5.54000	99.76800
.032	290.510	976.23000	976.23000	81.00000	976.23000	976.43009	66.00000	74.00000	-4.90490	99.76800
.016	391.080	976.23000	976.23000	81.00000	976.23000	976.43009	66.00000	74.00000	-5.75210	99.76800
-.030	491.730	976.03000	976.03000	81.00000	976.03000	976.43009	66.00000	74.00000	-4.92710	99.76800
-.021	591.510	976.15000	976.15000	81.00000	976.15000	976.43009	66.00000	74.00000	-4.33430	99.76800
-.012	791.350	976.12000	976.12000	81.00000	976.12000	976.43009	66.00000	74.00000	-5.18040	99.76800
-.009	871.380	976.01000	976.01000	81.00000	976.01000	976.43009	66.00000	74.00000	-6.06310	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2403/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PSI	DLPBAL	TB1	TB2	DT	T
5.032	-59.440	973.60000	973.60000	81.00000	973.60000	973.67009	66.00000	74.00000	-8.46940	99.76800
4.946	8.076	973.60000	973.60000	81.00000	973.60000	973.67009	66.00000	74.00000	-9.39330	99.76800
4.994	41.530	973.61000	973.61000	81.00000	973.61000	973.67009	66.00000	74.00000	-10.06500	99.76800
5.011	91.213	973.40000	973.40000	81.00000	973.40000	973.67009	66.00000	74.00000	-10.16400	99.76800
5.039	190.300	973.33000	973.33000	81.00000	973.33000	973.67009	66.00000	74.00000	-9.81650	99.76800
5.002	290.630	973.60000	973.60000	81.00000	973.60000	973.67009	66.00000	74.00000	-9.54690	99.76800
4.972	391.020	973.63000	973.63000	81.00000	973.63000	973.67009	66.00000	74.00000	-9.20080	99.76800
4.987	531.250	973.25000	973.25000	81.00000	973.25000	973.67009	66.00000	74.00000	-8.82230	99.76800
	GRADIENT	120.54778	120.54778	10.02935	120.54778	120.55016	9.17206	9.16261	-1.16189	12.35318

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK035) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLCR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2391/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.002	166.590	.09913	54.24400	-4.95970	2.99390	-.6817	-.00164	-.04085	-.00887	.00054	.09301
-4.993	191.510	-.00483	53.88400	-4.95250	2.99450	-.6361	-.00106	-.03874	-.00913	.00066	.09779
-4.999	241.170	.12695	54.06900	-4.95540	2.99330	-.4664	-.00246	-.03685	-.00891	.00052	.09389
-4.972	290.630	-.01306	53.60900	-4.94710	2.99540	-.4296	.00456	-.03934	-.00817	.00051	.09340
-4.960	390.740	.03399	53.90800	-4.93790	2.99510	-.4533	.01772	-.03668	-.00831	.00050	.10738
-4.978	490.820	.12492	54.03400	-4.95100	3.00110	-.3770	.02405	-.03029	-.01092	.00050	.11594
-5.030	591.860	.12427	54.10800	-5.01340	2.99770	-.1[illegible]8406	-.00334	-.03089	-.01071	.00028	.09815
-5.004	691.710	.19188	54.1[illegible]000	-4.98540	2.99730	-.16327	-.01571	-.03072	-.01046	.00033	.08956
-4.997	791.380	.14854	53.75600	-4.97830	2.99220	-.16362	-.01522	-.03105	-.01028	.00034	.09138
-4.995	991.220	.20143	53.93800	-4.97570	2.99600	-.16279	-.01483	-.03155	-.01031	.00034	.09402
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2397/ 0 R[illegible] = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.076	13.353	.05086	55.67200	-.05730	3.04970	-.12669	-.00760	-.04157	-.01020	.00049	.08336
-.041	42.387	.08105	54.12600	-.01359	2.99100	-.14833	-.00591	-.04773	-.00738	.00059	.08402
-.016	91.953	.06206	53.63900	.01698	2.99060	-.17061	-.00289	-.03065	-.00807	.00047	.08510
-.001	141.240	.01409	53.74600	.03365	2.99330	-.17782	.00555	-.03279	-.00839	.00064	.08871
.017	190.980	.03455	54.25900	.05074	2.99310	-.18046	.01599	-.03517	-.00792	.00057	.09399
.032	290.510	.03038	53.92300	.06830	2.99030	-.17474	.02842	-.03121	-.00990	.00047	.10407
.016	391.050	.04855	54.06400	.03722	3.00040	-.15147	.03001	-.02870	-.01183	.00020	.10827
-.030	491.730	.06877	53.92400	-.01264	2.99390	-.11801	.00709	-.02785	-.01153	.00020	.08903
-.021	591.510	.07684	53.72900	-.00260	2.99070	-.10612	.00118	-.02843	-.01071	.00026	.08750
-.012	791.350	.07460	53.93500	.00822	2.99520	-.10534	.00081	-.03033	-.01070	.00028	.08782
-.009	871.380	.09923	53.95700	.01129	2.99410	-.10574	.00103	-.02989	-.01060	.00027	.08972
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2403/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.032	-59.440	1.23630	55.61200	5.04070	3.04430	.15278	.00991	-.03827	-.00827	.00039	.08279
4.946	8.076	-.05354	54.68400	4.99590	2.99310	.10784	.00440	-.04558	-.00524	.00047	.08458
4.994	41.560	.12298	53.74400	5.02140	2.99350	-.10974	.01148	-.03278	-.00701	.00031	.08429
5.011	91.213	.07673	53.95600	5.04320	2.99430	-.11819	.02282	-.03160	-.00707	.00037	.09045
5.039	190.360	.09828	54.13700	5.06770	3.00530	-.11218	.03956	-.02769	-.01101	.00031	.09912
5.002	290.830	.05142	54.19400	5.02380	3.00320	.10741	.03958	-.03638	-.01335	.00012	.10163
4.972	391.520	.03251	53.57200	4.99020	2.99760	.14138	.02136	-.02895	-.01213	.00022	.08623
4.987	531.290	.10770	54.05500	5.00550	2.99390	.14827	.01046	-.03040	-.01087	.00026	.08716
	GRADIENT	-.00663	6.77092	.61537	.37135	.10097	.00054	-.00564	-.00065	.00006	.01047

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK038) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2392/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-5.023	167.280	200.05000	53.55800	2.99060	.36775	.01850	-.01110	.00092	-.00120	-.00046	.23275
-5.004	192.060	200.14000	54.04000	2.99770	.36483	.01184	-.01318	.00052	-.00154	-.00356	.23297
-5.014	242.040	200.07000	53.95200	2.99780	.32607	.00751	-.01309	.00043	-.00096	-.00432	.23309
-5.035	292.470	200.17000	54.25500	3.00410	.29778	.00606	-.01258	.00035	-.00061	-.00499	.23348
-5.039	392.450	200.12000	53.75100	2.99320	.26313	.00157	-.01143	.00002	-.00058	-.00106	.23298
-5.005	491.920	200.13000	53.90200	2.99080	.25650	.00010	-.01159	-.00010	.00032	-.00509	.23340
-4.956	591.030	200.00000	54.25300	3.00010	.24046	.00246	-.01134	-.00010	.00014	-.00524	.23358
-4.995	691.400	200.12000	54.04200	2.99780	.23339	.00449	-.01135	-.00018	.00034	-.00359	.23328
-4.988	791.440	200.13000	53.72100	2.99210	.23299	.00448	-.01169	-.00018	.00034	-.00364	.23366
-5.001	991.440	200.07000	54.10200	2.99780	.23279	.00450	-.01150	-.00019	.00033	-.00354	.23337
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2398/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.002	11.247	200.05000	54.35200	3.00050	.26201	.02289	-.01079	.00077	.00001	.01061	.23359
-.034	42.111	200.05000	54.01800	2.99310	.26503	.02228	-.01015	.00184	-.00105	.00615	.23350
-.027	92.411	200.10000	54.01100	3.00110	.30544	.02539	-.01244	.00050	-.00124	.00131	.23331
-.037	142.230	200.07000	54.01300	2.99320	.29761	.01859	-.01185	.00031	-.00068	-.00333	.23341
-.045	192.510	200.07000	53.94000	2.99340	.27049	.01287	-.01327	.00019	-.00069	-.00666	.23394
-.029	292.350	200.10000	53.77500	2.99070	.27710	.00784	-.01301	.00031	.00007	-.00371	.23385
.001	391.920	200.05000	53.99000	2.99300	.27598	.00102	-.01152	-.00025	.00061	-.00329	.23331
.031	490.990	200.11000	54.34500	3.00240	.24347	.00297	-.01184	-.00013	-.00014	-.00593	.23373
-.006	591.500	200.12000	53.76300	2.99390	.23716	.00508	-.01197	-.00019	.00034	-.00402	.23420
-.008	791.350	200.16000	53.95400	2.99330	.23580	.00540	-.01209	-.00025	.00040	-.00373	.23355
-.010	871.310	200.02000	53.33100	2.99330	.23547	.00545	-.01202	-.00025	.00038	-.00378	.23331
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2404/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
5.032	-59.892	200.17000	53.88900	3.00100	.21665	.00497	-.01737	-.00002	.00021	.00459	.23284
4.980	6.567	200.04000	54.12900	3.00030	.25943	.02315	-.00955	.00049	-.00046	.00422	.23314
4.972	42.265	200.14000	53.86300	2.99220	.27623	.02233	-.01331	-.00005	-.00097	.00044	.23390
4.944	92.740	200.04000	53.66400	2.99350	.26766	.01937	-.01237	.00033	-.00039	-.00379	.23353
4.960	192.250	200.13000	53.61400	2.99310	.26309	.01103	-.01290	.00008	-.00036	-.00416	.23349
4.994	291.790	200.04000	54.12500	2.99540	.27626	.00422	-.01218	-.00012	-.00032	-.00131	.23229
5.032	391.270	200.05000	53.31800	2.99130	.25145	.00242	-.01226	-.00017	.00018	-.00488	.23284
4.990	531.400	200.02000	53.72700	2.99390	.23594	.00506	-.01228	-.00020	.00032	-.00401	.23308
	GRADIENT	30.45954	8.24207	.45685	.03935	.00352	-.00145	.00007	-.00007	.00064	.03550

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK036) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2392/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.023	167.280	.03820	-.00140	2.99050	.03978	.02928	.04280	-.00384	-.00011	-.00116
-5.004	192.060	.03190	-.00110	2.99770	.03651	.02263	.03974	-.00591	-.00041	-.00149
-5.014	242.040	.02610	-.00110	2.99780	-.00256	.01831	.03902	-.00581	-.00049	-.00092
-5.035	292.470	.02340	-.00100	3.00410	-.03079	.01686	.03834	-.00530	-.00058	-.00057
-5.039	392.450	.01690	-.00080	2.99220	-.03936	.01236	.04227	-.00415	-.00091	-.00054
-5.005	491.920	.01600	-.00060	2.99090	-.07184	.01089	.03822	-.00431	-.00102	.00036
-4.956	591.030	.01750	-.00060	3.00010	-.08778	.01325	.03805	-.00406	-.00102	.00019
-4.995	691.400	.01890	-.00050	2.99780	-.09351	.01528	.03973	-.00408	-.00111	.00038
-4.988	791.440	.01890	-.00050	2.99210	-.09351	.01527	.03989	-.00441	-.00111	.00039
-5.001	991.440	.01900	-.00050	2.99790	-.09558	.01528	.03967	-.00423	-.00111	.00038
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2398/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.002	11.247	.03682	-.00130	3.00050	-.06701	.03349	.05400	-.00350	-.00015	.00005
-.034	42.111	.04429	-.00240	2.99810	-.04414	.04049	.04956	-.00286	.00091	-.00101
-.027	92.411	.04135	-.00090	3.00110	-.02366	.03620	.04471	-.00515	-.00043	-.00120
-.037	142.230	.03478	-.00080	2.99220	-.03167	.02940	.04010	-.00455	-.00062	-.00063
-.045	192.510	.02830	-.00080	2.99340	-.05387	.02369	.03578	-.00597	-.00074	-.00065
-.029	292.350	.02401	-.00090	2.99070	-.05206	.01865	.03970	-.00572	-.00062	.00012
.001	391.920	.01774	-.00050	2.99300	-.05269	.01183	.04008	-.00423	-.00118	.00065
.031	490.990	.01801	-.00030	3.00340	-.03533	.01377	.03744	-.00456	-.00106	-.00010
-.006	591.500	.01934	-.00050	2.99330	-.09166	.01583	.03934	-.00468	-.00112	.00038
-.008	791.350	.01986	-.00040	2.99380	-.09306	.01620	.03934	-.00480	-.00118	.00044
-.010	871.310	.01989	-.00040	2.99530	-.09340	.01625	.03959	-.00473	-.00117	.00043
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2404/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.032	-59.892	.01650	-.00050	3.00100	-.11340	.01582	.04812	-.01005	-.00095	.00026
4.980	6.567	.03700	-.00100	3.00030	-.07081	.03397	.04764	-.00226	-.00044	-.00041
4.972	42.265	.03710	-.00030	2.99220	-.05406	.03315	.04387	-.00651	-.00098	-.00093
4.944	92.740	.03420	-.00080	2.99350	-.06132	.03038	.03959	-.00508	-.00060	-.00034
4.960	192.250	.02620	-.00060	2.99310	-.06514	.02185	.03925	-.00561	-.00084	-.00031
4.994	291.790	.02050	-.00080	2.99340	-.05256	.01502	.04205	-.00490	-.00104	-.00027
5.032	391.270	.01780	-.00050	2.99130	-.07741	.01323	.03550	-.00498	-.00110	.00023
4.990	531.400	.01950	-.00040	2.99330	-.09197	.01506	.03937	-.00500	-.00113	.00036
	GRADIENT	.00563	-.00015	.45685	-.01078	.00517	.00725	-.00034	-.00007	-.00006

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK038) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = 3.000 X = 200.000
Y = 54.000 ELEVON = .000
UMBLOR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2392/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.023	167.280	200.05000	53.55600	.01864	-.03146	434.13000	.00000	.00000	649.71000	.00000	.00000
-5.004	192.060	200.14000	54.04000	.01161	-.04825	434.59000	.00000	.00000	650.40000	.00000	.00000
-5.014	242.040	200.07000	53.92200	-.00179	-.06574	435.00000	.00000	.00000	651.02000	.00000	.00000
-5.035	292.470	200.17000	54.28500	.02793	-.00544	434.53000	.00000	.00000	650.91000	.00000	.00000
-5.039	392.450	200.12000	53.75100	.00554	-.04692	434.83000	.00000	.00000	650.75000	.00000	.00000
-5.005	491.920	200.13000	53.90200	.02134	-.01444	434.75000	.00000	.00000	650.63000	.00000	.00000
-4.956	591.030	200.00000	54.25300	.02512	-.01003	434.48000	.00000	.00000	650.24000	.00000	.00000
-4.995	691.400	200.12000	54.04200	.02634	-.01646	434.83000	.00000	.00000	650.76000	.00000	.00000
-4.988	791.440	200.13000	53.72100	.02754	-.01769	434.84000	.00000	.00000	650.77000	.00000	.00000
-5.001	991.440	200.07000	54.10200	.02032	-.01832	434.83000	.00000	.00000	650.51000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2398/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.002	11.247	200.05000	54.35200	.01640	.00348	435.82000	.00000	.00000	651.79000	.00000	.00000
-.054	42.111	200.05000	54.01800	.01766	.01022	435.72000	.00000	.00000	652.09000	.00000	.00000
-.027	92.411	200.10000	54.01100	.01432	.00691	435.84000	.00000	.00000	651.97000	.00000	.00000
-.037	142.230	200.07000	54.01300	.00234	-.01710	435.87000	.00000	.00000	652.32000	.00000	.00000
-.045	192.510	200.07000	53.94000	.02337	.02493	435.90000	.00000	.00000	652.43000	.00000	.00000
-.029	292.350	200.10000	53.77500	.00320	-.01333	435.70000	.00000	.00000	652.07000	.00000	.00000
.001	391.920	200.05000	53.93000	-.00051	-.02800	435.33000	.00000	.00000	651.51000	.00000	.00000
.031	490.990	200.11000	54.34500	.02050	.00943	435.83000	.00000	.00000	651.36000	.00000	.00000
-.006	591.500	200.12000	53.76500	.01978	-.00279	435.83000	.00000	.00000	651.40000	.00000	.00000
-.008	791.350	200.16000	53.95400	.01955	-.00217	435.82000	.00000	.00000	651.49000	.00000	.00000
-.010	871.310	200.08000	53.83100	.02000	-.00265	435.83000	.00000	.00000	651.51000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2404/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.032	-59.892	200.17000	53.88900	.01036	.00119	436.83000	.00000	.00000	653.83000	.00000	.00000
4.980	6.567	200.04000	54.12900	.01312	.00426	435.82000	.00000	.00000	652.24000	.00000	.00000
4.972	42.265	200.14000	53.86300	.01284	.00709	435.94000	.00000	.00000	652.42000	.00000	.00000
4.944	92.740	200.04000	53.88400	.01734	.01284	435.47000	.00000	.00000	651.73000	.00000	.00000
4.980	192.250	200.13000	53.61400	.01086	.00058	435.83000	.00000	.00000	652.00000	.00000	.00000
4.994	291.790	200.04000	54.12500	.00174	-.02193	435.83000	.00000	.00000	651.40000	.00000	.00000
5.032	391.270	200.05000	53.31800	.01422	.00531	435.33000	.00000	.00000	651.47000	.00000	.00000
4.990	531.400	200.02000	53.72700	.01658	.00113	435.33000	.00000	.00000	651.59000	.00000	.00000
	GRADIENT	30.45954	8.24207	.00200	.00065	66.35112	.00000	.00000	99.31480	.00000	.00000

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ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DELTA = 3.000 X = 200.000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2392/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.023	187.280	976.81000	976.81000	84.00000	976.81000	976.14[illegible]	69.00000	76.00000	2.97600	99.76800
-5.004	192.050	976.[illegible]	976.[illegible]	84.[illegible]	976.[illegible]	976.14[illegible]	69.00000	76.00000	2.57740	99.76800
-5.014	242.040	976.65000	976.65000	84.00000	976.65000	976.14[illegible]	69.00000	76.00000	-.34072	99.76800
-5.035	292.470	976.49000	976.49000	84.00000	976.49000	976.14[illegible]	69.00000	76.00000	-3.80030	99.76800
-5.039	392.450	976.33000	976.33000	84.00000	976.[illegible]	976.14[illegible]	69.00000	76.00000	-5.35030	99.76800
-5.005	491.920	976.[illegible]	976.[illegible]	84.00000	976.[illegible]	976.14[illegible]	69.00000	76.00000	-5.70310	99.76800
-4.956	591.030	975.[illegible]	975.[illegible]	84.00000	975.[illegible]	976.14[illegible]	69.00000	76.00000	-6.09180	99.76800
-4.995	691.400	975.[illegible]	975.[illegible]	84.00000	976.[illegible]	976.14[illegible]	69.00000	76.00000	-5.58280	99.76800
-4.909	791.440	976.[illegible]	976.[illegible]	84.00000	976.[illegible]	976.14[illegible]	69.00000	76.00000	-4.80320	99.76800
-5.001	991.440	976.[illegible]	976.[illegible]	84.00000	976.[illegible]	976.14[illegible]	69.00000	76.00000	-3.63330	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2398/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.002	11.247	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-4.91340	99.76800
-.034	42.111	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.[illegible]	66.00000	74.00000	-4.35370	99.76800
-.027	92.411	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.[illegible]	66.00000	74.00000	-4.12690	99.76800
-.037	142.230	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.[illegible]	66.00000	74.00000	-4.88090	99.76800
-.045	192.510	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.[illegible]	66.00000	74.00000	-5.47730	99.76800
-.029	292.350	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-6.75180	99.76800
.001	391.920	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-8.00230	99.76800
.031	490.930	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-8.83370	99.76800
-.006	591.500	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-8.93230	99.76800
-.008	791.320	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-8.32030	99.76800
-.010	871.310	975.[illegible]	975.[illegible]	81.00000	975.[illegible]	975.73000	66.00000	74.00000	-7.76810	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2404/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.032	-59.892	973.13000	973.13000	80.00000	973.13000	972.[illegible]	66.00000	74.00000	-8.02740	99.76800
4.990	8.557	973.[illegible]	973.[illegible]	80.[illegible]	973.[illegible]	972.[illegible]	66.00000	74.00000	-7.67210	99.76800
4.972	42.203	973.[illegible]	973.[illegible]	80.[illegible]	973.[illegible]	972.[illegible]	66.00000	74.00000	-7.09370	99.76800
4.944	92.740	972.[illegible]	972.[illegible]	80.[illegible]	972.[illegible]	972.[illegible]	66.00000	74.00000	-7.22830	99.76800
4.980	192.250	973.[illegible]	973.[illegible]	80.00000	973.[illegible]	972.[illegible]	66.00000	74.00000	-7.65110	99.76800
4.994	291.790	972.[illegible]	972.[illegible]	80.00000	972.[illegible]	972.[illegible]	66.00000	74.00000	-8.75230	99.76800
5.032	391.270	972.[illegible]	972.[illegible]	80.00000	972.[illegible]	972.[illegible]	66.00000	74.00000	-8.93370	99.76800
4.990	531.400	973.17000	973.17000	80.00000	973.17000	972.[illegible]	66.00000	74.00000	-9.22710	99.76800
	GRADIENT	148.18345	148.18345	12.18138	148.18345	148.14995	10.04984	11.26778	-1.16821	15.19140

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK036) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2392/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.023	167.280	200.05000	53.55600	-4.98500	2.98920	-.17251	-.01305	-.03897	-.00985	.00076	.09856
-5.004	192.060	200.14000	54.04000	-4.97250	2.99560	-.17038	-.00671	-.03795	-.01051	.00082	.10024
-5.014	242.040	200.07000	53.53200	-4.98780	2.99570	-.17436	-.01218	-.03862	-.00966	.00055	.09284
-5.035	292.470	200.17000	54.25500	-5.01070	3.00310	-.17566	-.01004	-.04100	-.00982	.00062	.09325
-5.039	392.460	200.12000	53.75100	-5.01580	2.99140	-.17101	.00455	-.03734	-.00761	.00053	.09875
-5.005	491.920	200.13000	53.90200	-4.98340	2.99020	-.17521	.01931	-.03486	-.00858	.00049	.10947
-4.956	591.030	200.00000	54.28300	-4.93340	2.99550	-.17264	.01834	-.02930	-.01105	.00042	.11545
-4.995	691.400	200.12000	54.04200	-4.97630	2.99730	-.16972	-.01084	-.03003	-.01074	.00022	.09073
-4.938	791.440	200.13000	53.72100	-4.93030	2.99160	-.16200	-.01530	-.03074	-.01033	.00033	.09013
-5.001	991.440	200.07000	54.10200	-4.98160	2.99740	-.16297	-.01502	-.03166	-.01035	.00034	.09193
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2398/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.002	11.247	200.05000	54.35200	.03467	2.99320	-.03915	-.02114	-.05228	-.00[illegible]	.00069	.08796
-.034	42.111	200.05000	54.01800	.01077	2.99570	-.01258	-.01655	-.04309	-.01028	.00058	.08996
-.027	92.411	200.10000	54.01100	.01403	3.00020	-.03591	-.00977	-.03422	-.01100	.00052	.08886
-.037	142.230	200.07000	54.01300	-.00208	2.99740	-.07309	-.00520	-.03465	-.00943	.00059	.08671
-.045	192.510	200.07000	53.97600	-.01688	2.99330	-.07435	.00350	-.03330	-.00564	.00051	.09010
-.029	292.350	200.10000	53.77800	-.00804	2.99230	-.07249	.01271	-.03539	-.00828	.00048	.09797
.001	391.920	200.05000	53.92000	.01691	2.99250	-.07176	.02771	-.03036	-.01021	.00048	.10547
.031	490.930	200.11000	54.34500	.04922	3.00180	-.01823	.02482	-.02780	-.01158	.00023	.10654
-.006	591.500	200.12000	53.76500	.01401	2.99340	-.01902	.00239	-.02927	-.01102	.00022	.08638
-.008	791.350	200.16000	53.95400	.01198	2.99540	-.01514	.00095	-.03032	-.01071	.00028	.08856
-.010	871.310	200.08000	53.86100	.00990	2.99490	-.01529	.00108	-.03026	-.01066	.00028	.08852
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2404/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.032	-59.892	200.17000	53.88900	5.05010	3.00050	-.03599	.00389	-.03769	-.01306	.00046	.08523
4.980	6.567	200.04000	54.12900	5.01720	2.99930	-.01570	-.00203	-.04147	-.01026	.00047	.08523
4.972	42.265	200.14000	53.86300	5.00870	2.99750	-.00251	.00328	-.03586	-.00974	.00051	.08592
4.944	92.740	200.04000	53.86400	4.97800	2.99230	-.00638	.01298	-.03407	-.00796	.00047	.08850
4.960	192.250	200.13000	53.61400	4.98640	2.98650	-.00438	.02973	-.03175	-.00917	.00044	.09364
4.994	291.790	200.04000	54.12500	5.01480	2.99480	-.01599	.03859	-.02840	-.01159	.00034	.10012
5.032	391.270	200.05000	53.31600	5.05000	2.99080	.00929	.03240	-.02616	-.01283	.00014	.09873
4.990	531.400	200.02000	53.72700	5.00930	2.99340	-.01651	.01647	-.03055	-.01081	.00026	.08696
	GRADIENT	30.45554	8.24207	.76396	.45670	-.01102	-.00031	-.00631	-.00156	.00007	.01298

V418-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK037) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2393/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.022	167.100	400.13000	54.02000	2.99310	.34456	.0 569	-.01336	.00081	-.00089	-.00450	.23282
-4.984	191.260	400.02000	53.79200	2.99100	.34825	.0 161	-.01240	.00045	-.00060	-.00242	.23352
-4.977	240.970	400.02000	53.76800	2.99220	.33994	.0 1401	-.01249	.00039	.00005	-.00219	.23287
-5.010	291.390	400.00000	53.95300	2.99570	.30879	.0 1092	-.01188	.00037	-.00044	-.00309	.23363
-4.968	390.740	400.00000	54.10200	2.99020	.27960	-.0 1133	-.01121	-.00017	.00088	-.00352	.23266
-4.961	490.690	399.99000	54.02000	2.99540	.24265	.0 1141	-.01113	-.00009	-.00034	-.00644	.23328
-4.975	590.890	400.01000	54.24200	3.00430	.23421	.0 1397	-.01166	-.00010	.00027	-.00412	.23304
-5.008	691.440	400.12000	54.14500	3.00180	.23275	.0 1448	-.01155	-.00021	.00034	-.00358	.23256
-5.042	792.020	400.15000	54.27200	2.99910	.23290	.0 1448	-.01139	-.00019	.00034	-.00355	.23363
-4.999	991.280	400.17000	54.00500	2.99500	.23382	.0 1446	-.01155	-.00020	.00034	-.00348	.23249
	GRADIENT	.00000	.00000	.00000	.00000	.0 1000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2399/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-.084	13.860	400.03000	53.75700	2.99590	.32312	.0 1799	-.00998	.00197	-.00138	.00383	.23300
.016	40.815	400.12000	54.05100	2.99060	.32210	.0 1184	-.01049	.00116	-.00096	.00147	.23370
.042	90.423	400.15000	53.55500	2.98860	.31497	.0 1056	-.01291	.00012	-.00132	-.00268	.23392
.016	140.900	400.12000	53.55200	2.99480	.31274	.0 1215	-.01299	.00034	-.00056	-.00310	.23322
-.001	191.210	400.13000	53.93800	2.99260	.29834	.0 1717	-.01324	.00031	-.00010	-.00399	.23339
.029	290.620	400.11000	53.49300	2.99990	.28731	.0 1277	-.01155	-.00022	-.00053	-.00061	.23275
.031	390.530	400.16000	53.87200	2.99300	.25420	.0 1171	-.01226	-.00012	.00030	-.00528	.23358
.018	490.760	400.13000	54.00900	3.00000	.24223	.0 1371	-.01225	-.00014	.00028	-.00509	.23370
-.017	591.540	400.11000	54.23300	3.00080	.23581	.0 1545	-.01209	-.00024	.00038	-.00359	.23346
-.022	791.480	400.16000	53.91100	2.99410	.23543	.0 1546	-.01213	-.00025	.00038	-.00363	.23326
-.004	871.280	400.22000	53.46700	2.98860	.23529	.0 1544	-.01218	-.00024	.00039	-.00358	.23323
	GRADIENT	.00000	.00000	.00000	.00000	.0 1000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2405/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
4.997	-58.370	400.14000	54.26800	3.00150	.28834	.0 1535	-.01109	.00330	-.00062	.00749	.23297
5.033	5.632	400.19000	53.19300	2.98790	.29620	.0 1640	-.01103	.00084	-.00105	-.00001	.23368
5.008	41.032	400.15000	54.36500	3.00850	.29217	.0 1023	-.01282	.00008	-.00127	-.00305	.23323
5.012	90.783	400.25000	53.80700	2.99340	.27848	.0 1257	-.01313	.00025	-.00065	-.00425	.23355
5.029	190.530	400.09000	53.64200	2.99340	.27434	.0 1777	-.01325	.00033	.00006	-.00340	.23332
5.034	290.450	400.19000	53.62400	2.99340	.27171	.0 1147	-.01202	-.00021	.00054	-.00312	.23347
5.010	390.830	400.19000	53.91000	3.00000	.24339	.0 1311	-.01185	-.00018	-.00012	-.00561	.23305
4.969	531.450	400.16000	54.02200	2.99360	.23555	.0 1543	-.01212	-.00026	.00037	-.00342	.23367
	GRADIENT	70.80502	9.41189	.52864	.05241	.0 1467	-.00195	.00015	-.00019	-.00000	.04134

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK037) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2393/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.022	167.100	.03450	-.00130	2.99910	.01667	.02646	.03875	-.00609	-.00011	-.00085
-4.984	191.260	.03090	-.00100	2.99100	.02025	.02239	.04084	-.00513	-.00048	-.00056
-4.977	240.970	.02350	-.00110	2.99520	.01200	.01478	.04106	-.00522	-.00053	.00009
-5.010	291.380	.01920	-.00110	2.99570	-.01927	.01160	.04018	-.00461	-.00055	-.00040
-4.988	390.740	.01390	-.00060	2.99020	-.04819	.00944	.03974	-.00394	-.00110	.00092
-4.981	490.690	.01030	-.00070	2.99340	-.06332	.01219	.03831	-.00386	-.00101	-.00030
-4.975	590.890	.01030	-.00060	3.00430	-.08330	.01475	.03914	-.00439	-.00103	.00032
-5.008	691.440	.01090	-.00040	3.00100	-.09325	.01525	.03957	-.00428	-.00114	.00038
-5.042	792.020	.01890	-.00050	2.99310	-.08309	.01526	.03971	-.00413	-.00112	.00038
-4.999	991.260	.01900	-.00050	2.99300	-.09536	.01523	.03977	-.00428	-.00113	.00039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2399/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.084	13.860	.03333	-.00240	2.99890	-.00598	.04681	.04724	-.00269	.00104	-.00134
.016	40.815	.04801	-.00160	2.99060	-.00712	.04265	.04489	-.00319	.00023	-.00091
.042	90.423	.03740	-.00050	2.99060	-.01396	.03136	.04071	-.00563	-.00080	-.00128
.016	140.900	.02361	-.00100	2.99480	-.01633	.02297	.04030	-.00570	-.00059	-.00052
-.001	191.210	.02432	-.00090	2.99060	-.03222	.01798	.03951	-.00595	-.00062	-.00006
.029	290.620	.01933	-.00050	2.97930	-.04186	.01358	.04202	-.00426	-.00115	-.00049
.031	390.530	.01734	-.00060	2.99500	-.07491	.01252	.03812	-.00497	-.00105	.00034
.018	490.760	.01631	-.00050	3.00000	-.08376	.01453	.03930	-.00496	-.00107	.00033
-.017	591.540	.01533	-.00040	3.00030	-.09316	.01626	.03979	-.00490	-.00116	.00042
-.022	791.480	.01938	-.00040	2.99410	-.09336	.01626	.03974	-.00484	-.00118	.00042
-.004	871.280	.01995	-.00040	2.99060	-.09363	.01625	.03980	-.00489	-.00117	.00043
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2405/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.997	-58.370	.04460	-.00400	3.00150	-.05085	.04067	.05090	-.00380	.00237	-.00057
5.033	5.652	.04170	-.00130	2.99790	-.03293	.03721	.04340	-.00373	-.00008	-.00101
5.008	41.032	.03590	-.00060	3.00550	-.03887	.03104	.04035	-.00553	-.00085	-.00123
5.012	90.783	.02640	-.00080	2.96940	-.05078	.02349	.03918	-.00583	-.00068	-.00060
5.029	190.530	.02370	-.00100	2.98340	-.05488	.01859	.04002	-.00596	-.00059	.00010
5.034	290.450	.01790	-.00050	2.99340	-.05755	.01229	.04030	-.00472	-.00114	.00058
5.010	390.830	.01800	-.00050	3.00000	-.08382	.01392	.03781	-.00455	-.00111	-.00008
4.969	531.450	.01930	-.00030	2.99350	-.09392	.01625	.04000	-.00483	-.00119	.00041
	GRADIENT	.00738	-.00023	.52884	-.00583	.00658	.00769	-.00066	-.00001	-.00018

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK037) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2393/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.022	167.100	400.13000	54.02000	.03012	-.02087	434.03000	.00000	.00000	649.55000	.00000	.00000
-4.984	191.260	400.02000	53.79209	.01410	-.03966	434.13000	.00000	.00000	649.78000	.00000	.00000
-4.977	240.970	400.02000	53.78300	.00711	-.05374	434.13000	.00000	.00000	649.66000	.00000	.00000
-5.010	291.360	400.00000	53.95300	.01601	-.05154	434.23000	.00000	.00000	649.69000	.00000	.00000
-4.968	390.740	400.00000	54.10200	.01528	-.06211	434.17000	.00000	.00000	649.77000	.00000	.00000
-4.961	490.690	399.99000	54.02000	.03653	-.01361	434.14000	.00000	.00000	649.72000	.00000	.00000
-4.975	590.890	400.01000	54.24200	.03375	-.02217	434.13000	.00000	.00000	649.78000	.00000	.00000
-5.008	691.440	400.12000	54.14500	.03173	-.02046	434.17000	.00000	.00000	649.77000	.00000	.00000
-5.042	792.020	400.15000	54.27200	.03010	-.01929	434.17000	.00000	.00000	649.77000	.00000	.00000
-4.993	991.280	400.17000	54.09900	.02876	-.01840	434.14000	.00000	.00000	649.73000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2399/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.084	13.860	400.03000	53.75700	.01495	.00869	435.63000	.00000	.00000	651.94000	.00000	.00000
.016	40.815	400.12000	54.05100	.00971	-.00120	435.73000	.00000	.00000	652.18000	.00000	.00000
.042	90.423	400.15000	53.56300	.01214	.00188	435.41000	.00000	.00000	651.63000	.00000	.00000
.016	140.900	400.12000	53.55300	.00431	-.01077	435.63000	.00000	.00000	651.69000	.00000	.00000
-.001	191.210	400.13000	53.90300	-.01033	-.04046	435.53000	.00000	.00000	651.68000	.00000	.00000
.029	230.620	400.11000	53.49300	.00091	-.03057	435.63000	.00000	.00000	652.30000	.00000	.00000
.031	390.530	400.16000	53.87200	.02233	.00335	435.64000	.00000	.00000	651.97000	.00000	.00000
.018	490.760	400.13000	54.00900	.02169	.00356	435.43000	.00000	.00000	651.74000	.00000	.00000
-.017	591.540	400.11000	54.23300	.02166	-.00101	435.46000	.00000	.00000	651.70000	.00000	.00000
-.022	791.480	400.16000	53.91100	.02099	-.00109	435.23000	.00000	.00000	651.35000	.00000	.00000
-.004	871.280	400.22000	53.46700	.02033	-.00133	435.33000	.00000	.00000	651.59000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2405/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.997	-58.370	400.14000	54.28900	.00448	-.00141	435.74000	.00000	.00000	652.13000	.00000	.00000
5.033	5.652	400.19000	53.19300	.01298	.01094	435.63000	.00000	.00000	652.03000	.00000	.00000
5.008	41.032	400.15000	54.36500	.00658	.00014	435.83000	.00000	.00000	651.85000	.00000	.00000
5.012	90.783	400.25000	53.80700	-.00781	-.02445	435.63000	.00000	.00000	652.20000	.00000	.00000
5.029	190.530	400.09000	53.64200	.00407	-.00777	435.73000	.00000	.00000	652.16000	.00000	.00000
5.034	290.450	400.19000	53.68400	-.00339	-.02321	435.63000	.00000	.00000	652.28000	.00000	.00000
5.010	390.630	400.18000	53.91000	.01758	.01289	435.77000	.00000	.00000	652.16000	.00000	.00000
4.969	531.450	400.18000	54.02200	.01673	.00415	435.63000	.00000	.00000	652.29000	.00000	.00000
	GRADIENT	70.80502	9.41189	.00230	.00194	77.03422	.00000	.00000	115.36270	.00000	.00000

V41B-D9A (IA22),ORBITER(34RC1) W/ET SEPARATING (UVK037) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = 3.000 X = 400.000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2393/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.022	167.100	976.37000	976.37000	84.00000	976.37000	976.16000	68.00000	76.00000	.23221	99.76800
-4.984	191.260	976.23000	976.23000	84.00000	976.23000	976.16000	68.00000	76.00000	-.35877	99.76800
-4.977	240.970	976.05000	976.05000	84.00000	976.05000	976.16000	68.00000	76.00000	.10775	99.76800
-5.010	291.380	976.83000	976.83000	84.00000	976.83000	976.16000	68.00000	76.00000	3.35030	99.76800
-4.958	390.740	976.70000	976.70000	84.00000	976.70000	976.16000	68.00000	76.00000	5.56900	99.76800
-4.951	490.690	976.62000	976.62000	84.00000	976.62000	976.16000	68.00000	76.00000	5.12680	99.76800
-4.975	590.890	976.71000	976.71000	84.00000	976.71000	976.16000	68.00000	76.00000	2.63480	99.76800
-5.008	691.440	976.69000	976.69000	84.00000	976.69000	976.16000	68.00000	76.00000	.42257	99.76800
-5.042	792.020	976.69000	976.69000	84.00000	976.69000	976.16000	68.00000	76.00000	-1.60210	99.76800
-4.999	891.230	976.64000	976.64000	84.00000	976.64000	976.16000	68.00000	76.00000	-3.79280	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2399/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.084	13.860	975.14000	975.14000	81.00000	975.14000	974.92899	66.00000	74.00000	-6.20900	99.76800
.016	40.815	975.50000	975.50000	81.00000	975.50000	974.92899	66.00000	74.00000	-6.60740	99.76800
.042	90.423	975.15000	975.15000	81.00000	975.15000	974.92899	66.00000	74.00000	-7.03490	99.76800
.016	140.900	975.07000	975.07000	81.00000	975.07000	974.92899	66.00000	74.00000	-7.33590	99.76800
-.001	191.210	975.00000	975.00000	81.00000	975.00000	974.92899	66.00000	74.00000	-6.45420	99.76800
.029	290.620	975.19000	975.19000	81.00000	975.19000	974.92899	66.00000	74.00000	-3.94510	99.76800
.031	390.530	975.19000	975.19000	81.00000	975.19000	974.92899	66.00000	74.00000	-2.36820	99.76800
.018	490.760	974.84000	974.84000	81.00000	974.84000	974.92899	66.00000	74.00000	-1.95740	99.76800
-.017	591.540	974.78000	974.78000	81.00000	974.78000	974.92899	66.00000	74.00000	-2.68450	99.76800
-.022	791.480	974.73000	974.73000	81.00000	974.73000	974.92899	66.00000	74.00000	-4.49510	99.76800
-.004	871.280	974.61000	974.61000	81.00000	974.61000	974.92899	66.00000	74.00000	-5.61060	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2405/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.997	-58.370	973.01000	973.01000	80.00000	973.01000	972.80000	65.00000	74.00000	-8.20490	99.76800
5.033	5.652	973.34000	973.34000	80.00000	973.34000	972.80000	65.00000	74.00000	-8.20390	99.76800
5.008	41.032	973.03000	973.03000	80.00000	973.03000	972.80000	65.00000	74.00000	-8.69350	99.76800
5.012	90.783	973.24000	973.24000	80.00000	973.24000	972.80000	65.00000	74.00000	-8.55320	99.76800
5.029	190.530	973.03000	973.03000	80.00000	973.03000	972.80000	65.00000	74.00000	-7.47970	99.76800
5.034	290.450	973.24000	973.24000	80.00000	973.24000	972.80000	65.00000	74.00000	-6.52100	99.76800
5.010	390.830	973.05000	973.05000	80.00000	973.05000	972.80000	65.00000	74.00000	-5.15720	99.76800
4.969	531.450	973.25000	973.25000	80.00000	973.25000	972.80000	65.00000	74.00000	-5.36820	99.76800
	GRADIENT	172.21161	172.21161	14.15428	172.21161	172.11606	11.50035	13.09271	-1.45150	17.65180

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK037) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = 3.000 X = 400.000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2393/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.022	167.100	400.13000	54.02000	-4.98790	2.99780	-.17947	-.02134	-.04391	-.00023	.00057	.10207
-4.984	191.260	400.02000	53.79200	-4.95280	2.99000	-.13487	-.01365	-.04355	-.00953	.00040	.10619
-4.977	240.970	400.02000	53.76800	-4.95310	2.99510	-.17703	-.00792	-.03762	-.01101	.00051	.10770
-5.010	291.360	400.00900	53.75300	-4.99040	2.99450	-.14556	-.01832	-.03591	-.01066	.00074	.09323
-4.988	390.740	400.00000	54.10200	-4.95200	2.98650	-.13548	-.00839	-.04119	-.00800	.00062	.09354
-4.951	490.680	399.99000	54.02000	-4.94410	2.99470	-.11190	.00830	-.03836	-.00737	.00050	.10330
-4.975	590.690	400.01000	54.24200	-4.95360	3.00370	-.13088	.02050	-.03867	-.00923	.00052	.11189
-5.008	691.440	400.12000	54.14500	-4.99810	3.00140	-.11402	.00930	-.02970	-.01085	.00030	.10926
-5.042	792.020	400.15000	54.27200	-5.02270	2.99630	-.05388	-.01480	-.03101	-.01048	.00031	.08954
-4.999	991.280	400.17000	54.00900	-4.97930	2.99550	-.03264	-.01499	-.03129	-.01036	.00034	.09239
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2399/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.084	13.860	400.03000	53.75700	-.03065	2.99740	-.11334	-.03701	-.04403	-.01239	.00081	.10181
.016	40.815	400.12000	54.05100	.06430	2.99300	-.10534	-.02704	-.04731	-.00992	.00067	.10122
.042	90.423	400.15000	53.95300	.07913	2.99810	-.10529	-.00976	-.04470	-.00945	.00034	.10152
.016	140.900	400.12000	53.85200	.04606	2.99330	-.09470	-.00505	-.03892	-.01113	.00036	.09787
-.001	191.210	400.13000	53.99000	.02361	2.99770	-.07811	-.00747	-.03368	-.01248	.00059	.09242
.029	290.620	400.11000	53.49300	.04632	2.97940	-.08930	.00359	-.03726	-.00834	.00053	.09244
.031	390.530	400.10000	53.87200	.04809	2.99440	-.07078	.01767	-.03471	-.00854	.00044	.10096
.018	490.760	400.13000	54.00900	.03652	2.99250	-.03545	.02823	-.02389	-.01066	.00042	.10741
-.017	591.540	400.11000	54.23300	.00318	3.00040	-.05191	.01522	-.02227	-.01130	.00022	.09765
-.022	781.480	400.16000	53.91100	-.00239	2.99370	-.03517	.00109	-.03028	-.01071	.00028	.08307
-.004	871.280	400.22000	53.46700	.01593	2.98820	-.03520	.00107	-.03047	-.01073	.00028	.08941
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2405/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.997	-58.370	400.14000	54.28900	5.04150	2.99750	-.03494	-.01994	-.05730	-.00872	.00074	.10466
5.033	5.652	400.19000	53.19500	5.07500	2.98350	-.01820	-.00164	-.04142	-.01144	.00038	.09578
5.008	41.032	400.15000	54.36500	5.04380	3.00500	-.03201	.00252	-.03599	-.01353	.00039	.09243
5.012	90.783	400.25000	53.80700	5.03590	2.98350	-.01875	.00379	-.03952	-.01192	.00049	.09025
5.029	190.530	400.08000	53.64200	5.05220	2.99240	-.01826	.01556	-.03676	-.00842	.00050	.09434
5.034	290.450	400.19000	53.62400	5.05220	2.99260	-.01000	.03121	-.03136	-.00976	.00043	.09767
5.010	390.830	400.18000	53.91000	5.02760	2.99850	.00141	.03720	-.02827	-.01188	.00031	.10025
4.969	531.450	400.18000	54.02200	4.98370	2.98630	.01253	.02049	-.02908	-.01172	.00023	.08646
	GRADIENT	70.80502	9.41189	.89791	.52841	-.00810	-.00029	-.00733	-.00202	.00007	.01695

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK038) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UNCLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2775/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLR	CYR	CYNR	CBLR	CAR	WM
-20.006	624.820	-.05570	.21091	-.00164	.60395	-.01513	-.02822	-.00100	.00058	-.00967	.23341
-19.959	690.480	-.25475	-.00370	-.00439	.55033	-.01303	-.02908	-.00148	-.00051	-.01714	.23344
-19.947	759.420	-.31032	-.25346	-.00091	.46457	-.01240	-.02575	-.00240	.00220	-.02585	.23285
-20.015	999.440	.05574	-.01509	-.00339	.22032	.00359	-.02714	-.00181	.00048	-.02195	.23353
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2779/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLR	CYR	CYNR	CBLR	CAR	WM
-15.018	474.550	.11192	-.05309	-.00345	.52777	-.01000	-.03006	-.00148	.00117	-.01114	.23398
-15.021	499.380	.07712	-.33062	-.00389	.49351	-.01437	-.03054	-.00128	.00124	-.01440	.23374
-14.931	548.630	-.02214	-.12146	-.00383	.47431	-.01711	-.03059	-.00143	.00036	-.01599	.23377
-14.992	598.940	-.00027	-.40221	-.00036	.43236	-.01382	-.02439	-.00039	.00142	-.02223	.23371
-14.971	698.610	-.18000	-.20465	-.00404	.32126	-.01975	-.02831	-.00039	.00214	-.03239	.23406
-15.083	800.230	.22532	.17978	-.00168	.24147	.01003	-.03090	-.00183	.00026	-.02305	.23403
-15.068	999.930	.32151	-.03317	-.00407	.22178	.01823	-.02749	-.00189	.00051	-.02077	.23411
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2783/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLR	CYR	CYNR	CBLR	CAR	WM
-10.514	349.510	.05441	.22635	-.00[illegible]	.43875	.01042	-.03009	-.00210	.00050	-.01305	.23384
-10.511	399.120	.08823	-.60978	-.01[illegible]	.39230	-.01023	-.03028	-.00183	.00075	-.01750	.23293
-10.493	448.960	-.01218	-.16179	-.00835	.35036	-.01016	-.03040	-.00138	.00122	-.02156	.23370
-10.485	498.970	.03009	-.19174	-.00830	.33782	-.01309	-.03038	-.00185	-.00047	-.02176	.23394
-10.484	598.790	-.00372	-.18005	-.00402	.27353	-.01007	-.02840	-.00208	.00112	-.02359	.23384
-10.569	699.940	.23003	-.18312	-.00839	.23005	.01232	-.02712	-.00183	.00032	-.02086	.23364
-10.550	799.640	.23007	-.23003	-.00809	.21033	.01832	-.02744	-.00190	.00053	-.01948	.23437
-10.512	899.170	.21077	-.24007	-.00748	.21979	.01824	-.02726	-.00183	.00082	-.01937	.23343
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DSETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2492/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-4.998	174.620	-.00504	.32731	.00053	.35046	.0?193	-.03495	-.00074	-.00193	-.00124	.23551
-4.986	199.490	.00397	.47937	-.00046	.34643	.0 935	-.03509	-.00190	-.00079	-.00521	.23463
-4.989	249.180	-.02533	.37399	.00362	.32978	.0 885	-.03436	-.00038	-.00071	-.01165	.23350
-4.979	299.830	.06394	-.15339	-.00724	.28704	.0 855	-.03460	-.00035	-.00031	-.01615	.23473
-4.955	398.820	.00194	.11912	-.00147	.20219	.0 379	-.03439	.00015	-.00028	-.01504	.23594
-4.979	498.930	-.03113	.08332	.00088	.27237	-.0 123	-.03027	-.00034	.00056	-.01271	.23423
-5.044	599.870	.12034	.37245	.00241	.20206	.0 129	-.03089	-.00042	-.00009	-.01594	.23428
-5.021	699.800	.05393	.57719	.00411	.20203	.0 164	-.03121	-.00027	.00042	-.01450	.23428
-5.000	799.340	.11806	.23038	-.00120	.22225	.0 120	-.03136	-.00035	.00040	-.01444	.23403
-4.998	999.330	.14997	-.03327	-.00354	.22886	.0 160	-.03143	-.00024	.00041	-.01443	.23354
	GRADIENT	.00000	.00000	.00000	.00000	.0 000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2495/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.052	21.373	.08558	1.41490	.04053	.21531	.0?473	-.03705	-.00065	-.00039	-.00632	.23516
-.027	50.325	.03304	.24810	-.00428	.24181	.0 313	-.03577	-.00033	-.00030	.00007	.23533
-.003	99.646	.03708	-.20335	-.00028	.20397	.0 303	-.03440	-.00103	-.00144	-.00017	.23526
.009	149.120	.05818	.65455	.00943	.22873	.0 305	-.03541	-.00147	-.00065	-.00920	.23513
.014	199.070	.03251	-.07174	-.00246	.27157	.0 339	-.03337	-.00036	-.00034	-.01430	.23438
.023	298.550	.05226	.19002	.00163	.27055	.0 335	-.03405	-.00022	-.00035	-.01352	.23462
.015	399.000	.04109	.07030	.00216	.27821	.0 338	-.03523	-.00011	-.00028	-.01173	.23419
-.032	499.710	.00483	.24030	-.00093	.25019	.0 049	-.03105	-.00047	.00064	-.01483	.23442
-.017	599.460	.13515	-.10073	-.00174	.20300	.0 315	-.03123	-.00030	.00043	-.01513	.23408
-.014	799.280	.13054	-.03033	-.00449	.22072	.0 400	-.03133	-.00035	.00040	-.01458	.23397
-.010	879.270	.13074	.02035	-.00300	.22003	.0 481	-.03143	-.00032	.00039	-.01471	.23375
	GRADIENT	.00000	.00000	.00000	.00000	.0 000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2498/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
5.028	-51.493	1.16350	1.29170	.03334	.19351	-.0 539	-.03496	-.00072	-.00019	-.01587	.23463
4.944	16.122	.00335	.02409	-.00705	.23170	.0 031	-.03330	-.00008	-.00075	-.00164	.23541
5.000	49.354	.12055	-.00259	-.00272	.24040	.0 173	-.03347	-.00043	-.00140	-.00119	.23447
5.013	99.165	.17285	-.33712	-.00782	.22252	.0 203	-.03305	-.00112	-.00033	-.01027	.23444
5.033	198.310	.16342	.28771	.00380	.25757	.0 322	-.03431	-.00052	-.00012	-.01467	.23516
4.998	298.970	.13517	-.03228	.00010	.27002	.0 351	-.03485	.00013	.00043	-.01453	.23433
4.971	399.450	.03093	.22747	-.00351	.26783	.0 091	-.03071	-.00052	.00082	-.01337	.23512
4.986	539.280	.20263	-.13031	-.00342	.24073	.0 349	-.03109	-.00029	.00041	-.01533	.23514
	GRADIENT	.00023	.00155	-.00044	.01437	.0 064	-.00247	-.00000	-.00005	-.00010	.01460

V418-DSA (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK038) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1230.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2775/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.006	624.820	.01800	3.00054	-.00164	.27000	-.00416	.03436	-.02242	-.00194	.00063
-19.959	693.450	.00000	3.00069	-.00439	.22198	-.02284	.02589	-.01567	-.00243	-.00046
-19.947	793.420	-.00400	3.00171	-.00891	.13003	-.02141	.01226	-.01833	-.00334	.00224
-20.015	903.440	.01700	3.00159	-.00339	-.10440	.01455	.02201	-.01975	-.00275	.00053
	GRADIENT	.00500	.00900	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2779/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.018	474.560	.02000	3.00115	-.00545	.19584	.00101	.03263	-.02270	-.00241	.00122
-15.021	499.380	.01400	3.00039	-.00329	.16152	-.00346	.02939	-.02318	-.00221	.00129
-14.931	548.630	.00100	3.00078	-.00358	.14245	-.01621	.02778	-.02104	-.00237	.00071
-14.932	603.940	-.00300	3.00176	-.00535	.10047	-.01901	.02093	-.01703	-.00332	.00147
-14.971	683.610	.00100	2.99934	-.00404	-.01110	-.00303	.01144	-.01645	-.00132	.00219
-15.083	800.230	.01300	3.00153	-.00163	-.09053	.01175	.02074	-.01585	-.00232	.00031
-15.068	939.920	.01900	3.00167	-.00407	-.11020	.01614	.02301	-.02014	-.00281	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2783/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.514	349.510	.03500	3.00194	-.00084	.11005	.01125	.03044	-.02279	-.00303	.00055
-10.511	359.120	.01800	3.00133	-.01202	.08277	.00460	.02595	-.02288	-.00256	.00080
-10.493	448.980	.01100	3.00105	-.00735	.08209	.00097	.02193	-.02310	-.00201	.00127
-10.485	498.970	.00700	3.00120	-.00880	.00303	-.00226	.02171	-.02105	-.00258	-.00043
-10.484	598.780	.00900	3.00172	-.00402	-.05618	.00276	.01930	-.01909	-.00301	.00117
-10.569	699.540	.01700	3.00169	-.00569	-.08089	.01315	.02263	-.01931	-.00281	.00036
-10.550	799.840	.01900	3.00169	-.00509	-.11013	.01615	.02309	-.02013	-.00283	.00057
-10.512	999.170	.01900	3.00169	-.00748	-.11008	.01608	.02414	-.02025	-.00282	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK038) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2492/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-4.998	174.620	.04000	3.00077	.00053	.01954	.03280	.04_40	-.02763	-.00167	-.00193
-4.996	199.490	.03750	3.00206	-.00046	.01590	.03022	.03838	-.02877	-.00283	-.00074
-4.989	249.180	.03100	3.00028	.00352	-.00098	.02382	.03197	-.02704	-.00131	-.00066
-4.979	298.830	.02360	3.00044	-.00724	-.03403	.01743	.02752	-.02726	-.00158	-.00027
-4.985	398.820	.02040	2.99957	-.00147	-.04912	.01468	.02665	-.02705	-.00078	-.00024
-4.979	498.930	.01540	3.00032	.00058	-.05932	.00986	.03103	-.02292	-.00158	.00101
-5.044	598.870	.01610	3.00009	.00041	-.09359	.01219	.02791	-.02384	-.00136	-.00005
-5.021	699.680	.01220	2.99939	.00411	-.10469	.01514	.02824	-.02386	-.00121	.00047
-5.000	799.340	.01630	2.99990	-.00120	-.10618	.01560	.02931	-.02401	-.00118	.00044
-4.998	999.330	.01850	2.99994	-.00354	-.10620	.01551	.02933	-.02408	-.00117	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2495/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.052	21.373	.01799	3.00052	.04059	-.11900	.01572	.03777	-.02954	-.00159	-.00034
-.027	50.325	.02394	3.00028	-.00428	-.09316	.02439	.04424	-.03134	-.00127	-.00075
-.003	99.646	.03116	3.00188	-.00938	-.05090	.02833	.04398	-.02698	-.00278	-.00139
.009	149.120	.03149	3.00147	.00543	-.04544	.02694	.03487	-.02600	-.00241	-.00061
.014	199.070	.03111	3.00026	-.00246	-.06258	.02736	.02977	-.02597	-.00130	-.00030
.023	298.550	.02395	2.99997	.00163	-.06460	.01957	.03068	-.02662	-.00116	-.00030
.015	399.000	.01854	2.99974	.00216	-.05954	.01328	.03242	-.02481	-.00105	-.00024
-.032	499.710	.01578	3.00013	-.00093	-.02468	.01149	.02934	-.02363	-.00141	.00069
-.017	599.480	.01752	2.99994	-.00174	-.09055	.01414	.02837	-.02381	-.00125	.00048
-.014	799.280	.01870	2.99989	-.00449	-.10503	.01579	.02957	-.02391	-.00119	.00044
-.010	879.270	.01872	2.99990	-.00300	-.10532	.01583	.02951	-.02400	-.00117	.00044
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2498/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.028	-51.493	.00320	3.00036	.03394	-.13760	.00569	.02861	-.02749	-.00167	-.00015
4.944	16.127	.02360	2.99995	-.00705	-.10499	.02137	.04277	-.03234	-.00102	-.00070
5.000	49.384	.02550	3.00032	-.00272	-.08334	.02279	.04323	-.02901	-.00138	-.00135
5.013	99.165	.03080	3.00112	-.00792	-.07649	.02789	.03414	-.02638	-.00207	-.00028
5.033	198.310	.02710	3.00040	.00350	-.07956	.02390	.02979	-.02684	-.00147	-.00008
4.998	298.970	.02230	2.99960	.00010	-.06704	.01788	.02992	-.02738	-.00082	.00047
4.971	399.450	.01690	3.00021	-.00351	-.06979	.01197	.03102	-.02325	-.00147	.00086
4.986	539.280	.01800	2.99992	-.00542	-.09571	.01458	.02918	-.02352	-.00124	.00046
	GRADIENT	.00146	.18508	-.00044	-.00651	.00133	.00265	-.00201	-.00006	-.00004

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2775/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.006	624.820	-.05570	.21091	-.01317	-.16174	441.01000	.00000	.00000	661.35000	.00000	.00000
-19.959	698.460	-.25475	-.05970	-.05979	-.29230	442.[illegible]9000	.00000	.00000	662.82000	.00000	.00000
-19.947	798.420	-.31532	-.23546	.05193	-.10370	442.[illegible]3000	.00000	.00000	662.73000	.00000	.00000
-20.015	999.440	.05374	-.01589	.04685	-.06905	441.[illegible]1000	.00000	.00000	660.31000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2779/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.018	474.560	.11192	-.05509	-.08878	-.32286	439.[illegible]0000	.00000	.00000	657.57000	.00000	.00000
-15.021	499.380	.07712	-.33089	-.07248	-.31866	439.[illegible]6000	.00000	.00000	657.69000	.00000	.00000
-14.981	548.890	-.00214	-.12146	.07334	-.11713	439.[illegible]0000	.00000	.00000	657.42000	.00000	.00000
-14.982	598.940	-.00027	-.48221	.24902	.14224	438.[illegible]9000	.00000	.00000	657.29000	.00000	.00000
-14.971	698.610	-.16508	-.20485	.04607	-.13067	439.[illegible]3000	.00000	.00000	663.42000	.00000	.00000
-15.083	800.230	.22352	.17978	.05372	-.07333	439.[illegible]7000	.00000	.00000	657.70000	.00000	.00000
-15.068	999.920	.32151	-.33317	.04900	-.05772	439.[illegible]1000	.00000	.00000	657.62000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2783/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.514	349.310	.05441	.22656	-.13035	-.40052	436.[illegible]3000	.00000	.00000	653.15000	.00000	.00000
-10.511	399.120	.08693	-.60978	.12387	-.02508	436.[illegible]1000	.00000	.00000	652.82000	.00000	.00000
-10.493	448.960	-.01218	-.16179	.06420	-.09387	436.[illegible]1000	.00000	.00000	653.28000	.00000	.00000
-10.485	498.970	.09888	-.19174	.02975	-.12903	436.[illegible]8000	.00000	.00000	652.93000	.00000	.00000
-10.484	599.790	-.06672	-.16095	.03028	-.08879	436.[illegible]0000	.00000	.00000	653.25000	.00000	.00000
-10.569	699.940	.23939	-.18312	.04874	-.05171	436.[illegible]6000	.00000	.00000	653.21000	.00000	.00000
-10.550	799.840	.25597	-.26383	.04429	-.04370	436.[illegible]6000	.00000	.00000	653.05000	.00000	.00000
-10.512	999.170	.21077	-.24007	.04014	-.03285	436.[illegible]5000	.00000	.00000	653.48000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.[illegible]0000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(34RC1) W/ET SEPARATING (TVK039) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2492/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-4.998	174.620	-.00504	.32731	-.07728	-.21241	438.63000	.00000	.00000	655.55000	.00000	.00000
-4.996	199.490	.00397	.47937	.10054	.06472	437.53000	.00000	.00000	654.80000	.00000	.00000
-4.989	249.180	-.02533	.37399	-.00479	-.09862	437.63000	.00000	.00000	655.25000	.00000	.00000
-4.979	298.830	.06394	-.15339	.03154	-.03188	438.31000	.00000	.00000	655.85000	.00000	.00000
-4.965	398.820	.00194	.11912	.01821	-.05345	438.55000	.00000	.00000	656.33000	.00000	.00000
-4.979	498.930	-.03113	.06362	.00475	-.07505	438.92000	.00000	.00000	656.88000	.00000	.00000
-5.044	599.870	.12954	.37245	.03553	-.01954	439.13000	.00000	.00000	657.19000	.00000	.00000
-5.021	699.680	.05525	.57716	.03142	-.02318	438.99000	.00000	.00000	656.98000	.00000	.00000
-5.000	799.340	.11385	.23958	.02900	-.02248	439.11000	.00000	.00000	657.17000	.00000	.00000
-4.998	999.330	.14897	-.03327	.02681	-.02060	439.15000	.00000	.00000	657.22000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2495/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.052	21.373	.06558	1.41490	-.01126	-.06109	442.53000	.00000	.00000	662.28000	.00000	.00000
-.027	50.325	.03594	.24810	.02761	.00755	443.40000	.00000	.00000	663.59000	.00000	.00000
-.003	99.646	.03708	-.20395	.02184	-.00946	443.14000	.00000	.00000	663.20000	.00000	.00000
.009	149.120	.05918	.65455	-.00376	-.04641	442.34000	.00000	.00000	662.00000	.00000	.00000
.014	199.070	.03251	-.07174	.02327	-.00094	442.33000	.00000	.00000	661.97000	.00000	.00000
.023	298.550	.05226	.19002	.01119	-.02121	443.63000	.00000	.00000	663.97000	.00000	.00000
.015	399.000	.04109	.07650	.00040	-.04273	443.10000	.00000	.00000	663.14000	.00000	.00000
-.032	499.710	.00483	.24080	-.00267	-.03936	443.23000	.00000	.00000	663.40000	.00000	.00000
-.017	599.480	.13615	.19973	.02085	-.00489	442.71000	.00000	.00000	662.55000	.00000	.00000
-.014	799.280	.13094	-.08328	.01909	-.00574	443.10000	.00000	.00000	663.14000	.00000	.00000
-.010	879.270	.13874	.05565	.01842	-.00573	443.64000	.00000	.00000	664.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2498/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.028	-51.493	1.16350	1.29170	.01288	-.00315	446.37000	.00000	.00000	668.04000	.00000	.00000
4.944	16.122	.00386	.02499	.01344	-.00149	445.63000	.00000	.00000	667.00000	.00000	.00000
5.000	49.384	.12935	-.00299	.01398	-.00812	445.77000	.00000	.00000	667.13000	.00000	.00000
5.013	99.165	.17285	-.39712	.01905	.00213	445.73000	.00000	.00000	667.16000	.00000	.00000
5.033	198.310	.16642	.26771	.01625	-.00831	446.26000	.00000	.00000	667.65000	.00000	.00000
4.998	298.970	.13517	-.03228	.00736	-.02464	446.17000	.00000	.00000	667.73000	.00000	.00000
4.971	399.450	.03093	.22747	-.00936	-.04593	445.53000	.00000	.00000	666.86000	.00000	.00000
4.986	539.280	.20263	-.13881	.01757	.00157	446.67000	.00000	.00000	668.49000	.00000	.00000
	GRADIENT	.00023	.00155	.00083	-.00009	27.64421	.00000	.00000	41.37204	.00000	.00000

REFERENCE DATA

SREF	.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2775/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.006	624.820	978.96000	978.96000	86.00000	978.96000	978.77000	88.00000	76.00000	25.90500	99.64200
-19.959	698.460	979.18000	979.18000	86.00000	979.18000	978.77000	88.00000	76.00000	27.89400	99.64200
-19.947	798.420	980.02000	980.02000	86.00000	980.02000	978.77000	88.00000	76.00000	35.54500	99.64200
-20.015	999.440	979.36000	979.36000	86.00000	979.36000	978.77000	88.00000	76.00000	30.36100	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2779/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.018	474.560	981.12000	981.12000	85.00000	981.12000	930.92000	87.00000	77.00000	28.32900	99.76800
-15.021	499.380	981.29000	981.29000	85.00000	981.29000	930.92000	87.00000	77.00000	27.81800	99.76800
-14.981	548.880	981.39000	981.39000	85.00000	981.39000	930.92000	87.00000	77.00000	25.78400	99.76800
-14.982	598.940	981.19000	981.19000	85.00000	981.19000	930.92000	87.00000	77.00000	26.28500	99.76800
-14.971	698.810	981.42000	981.42000	85.00000	981.42000	930.92000	87.00000	77.00000	24.79000	99.76800
-15.083	800.230	981.32000	981.32000	85.00000	981.32000	930.92000	87.00000	77.00000	22.37100	99.76800
-15.068	999.520	981.69000	981.69000	85.00000	981.69000	930.92000	87.00000	77.00000	17.15800	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2783/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.514	349.510	981.75000	981.75000	84.00000	981.75000	931.57000	86.00000	77.00000	27.89300	99.76800
-10.511	399.120	981.26000	981.26000	84.00000	981.26000	931.57000	86.00000	77.00000	27.69500	99.76800
-10.493	448.560	981.47000	981.47000	84.00000	981.47000	931.57000	86.00000	77.00000	27.15700	99.76800
-10.485	499.970	981.43000	981.43000	84.00000	981.43000	931.57000	86.00000	77.00000	24.63900	99.76800
-10.484	598.790	981.43000	981.43000	84.00000	981.43000	931.57000	86.00000	77.00000	21.62500	99.76800
-10.569	699.940	981.36000	981.36000	84.00000	981.36000	931.57000	86.00000	77.00000	18.07500	99.76800
-10.550	799.840	981.61000	981.61000	84.00000	981.61000	931.57000	86.00000	77.00000	15.29100	99.76800
-10.512	999.170	981.29000	981.29000	84.00000	981.29000	931.57000	86.00000	77.00000	12.47800	99.76000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RCI) W/ET SEPARATING (UVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2492/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-4.998	174.620	976.67000	976.67000	79.00000	976.67000	976.48000	65.00000	74.00000	16.16500	99.76800
-4.986	199.490	976.62000	976.62000	79.00000	976.62000	976.48000	65.00000	74.00000	19.12500	99.76800
-4.969	249.180	976.21000	976.21000	79.00000	976.21000	976.48000	65.00000	74.00000	16.39500	99.76800
-4.979	293.830	976.31000	976.31000	79.00000	976.31000	976.48000	65.00000	74.00000	14.39500	99.76800
-4.965	393.620	976.02000	976.02000	79.00000	976.02000	976.48000	65.00000	74.00000	13.95200	99.76800
-4.979	498.930	977.19000	977.19000	79.00000	977.19000	976.48000	65.00000	74.00000	13.09200	99.76800
-5.044	599.870	977.65000	977.65000	79.00000	977.65000	976.48000	65.00000	74.00000	11.91800	99.76800
-5.021	699.680	977.83000	977.83000	79.00000	977.83000	976.48000	65.00000	74.00000	10.34400	99.76800
-5.000	799.340	977.62000	977.62000	79.00000	977.62000	976.48000	65.00000	74.00000	8.73730	99.76800
-4.998	999.330	977.21000	977.21000	79.00000	977.21000	976.48000	65.00000	74.00000	6.76380	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2495/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.052	21.373	977.40000	977.40000	79.00000	977.40000	977.18809	64.00000	74.00000	-.42321	99.76800
-.027	50.325	977.30000	977.30000	79.00000	977.30000	977.18809	64.00000	74.00000	-.14243	99.76800
-.003	99.646	977.22000	977.22000	79.00000	977.22000	977.18809	64.00000	74.00000	-.14239	99.76800
.009	149.120	976.82000	976.82000	79.00000	976.82000	977.18809	64.00000	74.00000	-.74132	99.76800
.014	199.070	976.82000	976.82000	79.00000	976.82000	977.18809	64.00000	74.00000	-.78241	99.76800
.023	299.550	976.84000	976.84000	79.00000	976.84000	977.18809	64.00000	74.00000	-.51112	99.76800
.015	399.000	976.71000	976.71000	79.00000	976.71000	977.18809	64.00000	74.00000	-.43237	99.76800
-.032	499.710	976.60000	976.60000	79.00000	976.60000	977.18809	64.00000	74.00000	.46655	99.76800
-.017	599.480	976.33000	976.33000	79.00000	976.33000	977.18939	64.00000	74.00000	1.18010	99.76800
-.014	799.280	976.21000	976.21000	79.00000	976.21000	977.18939	64.00000	74.00000	1.23440	99.76800
-.010	879.270	976.63000	976.63000	79.00000	976.63000	977.18809	64.00000	74.00000	.75341	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2498/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.028	-51.493	976.51000	976.51000	79.00000	976.51000	976.30000	64.00000	74.00000	-1.17470	99.64200
4.944	16.122	976.48000	976.48000	79.00000	976.48000	976.30000	64.00000	74.00000	-1.72850	99.64200
5.000	49.384	976.17000	976.17000	79.00000	976.17000	976.30000	64.00000	74.00000	-3.20950	99.64200
5.013	99.165	976.22000	976.22000	79.00000	976.22000	976.30000	64.00000	74.00000	-3.85040	99.64200
5.033	199.310	976.23000	976.23000	79.00000	976.23000	976.30000	64.00000	74.00000	-4.73330	99.64200
4.988	298.970	976.07000	976.07000	79.00000	976.07000	976.30000	64.00000	74.00000	-5.47970	99.64200
4.971	399.450	976.77000	976.77000	79.00000	976.77000	976.30000	64.00000	74.00000	-4.52430	99.64200
4.986	539.280	977.17000	977.17000	79.00000	977.17000	976.30000	64.00000	74.00000	-2.74330	99.64200
	GRADIENT	60.56817	60.56817	4.90014	60.56817	60.55700	3.96973	4.59000	-.10721	6.18050

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2775/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.006	624.820	-.05570	.21091	-19.99300	2.99890	-.41032	-.00753	-.03941	-.00747	.00064	.11477
-19.959	698.460	-.25475	-.05970	-19.99900	2.99830	-.41469	.00894	-.03838	-.00767	.00060	.14017
-19.947	798.420	-.31952	-.23546	-19.95100	2.99590	-.41384	.03864	-.03681	-.00826	.00085	.16776
-20.015	999.440	.05374	-.01589	-19.99800	2.99820	-.33597	-.03665	-.03817	-.00675	.00036	.11809
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2779/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.018	474.560	.11192	-.05509	-14.99300	2.99570	-.33250	-.00506	-.04033	-.00653	.00045	.10311
-15.021	499.380	.07712	-.33068	-15.00700	2.99550	-.31133	-.01530	-.03044	-.00753	.00045	.10888
-14.981	548.880	-.08214	-.12146	-14.98000	2.99520	-.31916	-.00509	-.03698	-.00769	.00039	.11730
-14.982	598.940	-.00027	-.46221	-14.98500	2.99210	-.33617	.00949	-.03732	-.00762	.00039	.12804
-14.971	698.610	-.16500	-.20455	-14.97000	2.99550	-.35031	.03003	-.03539	-.00808	.00044	.15054
-15.083	800.230	.22352	.17978	-15.06700	2.99090	-.27542	-.00541	-.03423	-.00839	.00035	.12647
-15.068	999.920	.32151	-.03617	-15.04900	2.99760	-.21954	-.03794	-.03440	-.00819	.00034	.10870
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2783/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.514	349.510	.05441	.22656	-10.48900	3.00140	-.24851	-.00330	-.03553	-.00849	.00028	.10463
-10.511	399.120	.06693	-.60978	-10.49500	2.99330	-.26865	-.00939	-.03568	-.00918	.00028	.10015
-10.493	448.960	-.01218	-.15179	-10.48200	2.99540	-.23261	-.00078	-.03542	-.00812	.00023	.10833
-10.485	498.970	.09288	-.19174	-10.47800	2.99440	-.24149	.00950	-.03499	-.00781	.00021	.11867
-10.484	598.790	-.05572	-.16095	-10.47500	2.99770	-.24481	.02331	-.03209	-.00690	.00022	.13295
-10.569	699.940	.23968	-.18312	-10.55200	2.99500	-.18198	-.00819	-.03081	-.00834	.00016	.11138
-10.550	799.840	.25897	-.26363	-10.53100	2.99660	-.14142	-.03103	-.03040	-.00929	.00018	.09993
-10.512	999.170	.21077	-.24007	-10.49300	2.99420	-.13998	-.03033	-.03104	-.00914	.00019	.10242
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2492/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-4.998	174.620	-.00504	.32731	-4.95750	3.00130	-.16392	.00046	-.03669	-.00842	.00037	.09755
-4.996	199.490	.00397	.47937	-4.95680	3.00160	-.16024	-.00035	-.03637	-.00791	.00039	.09661
-4.989	249.180	-.02533	.37399	-4.95800	3.00390	-.14570	-.00081	-.03554	-.00830	.00038	.09409
-4.979	298.830	.06394	-.10339	-4.95500	2.99320	-.14323	.00478	-.03506	-.00818	.00029	.09656
-4.985	398.820	.00194	.11912	-4.94420	2.99810	-.14402	.01860	-.03284	-.00824	.00030	.10839
-4.979	498.930	-.03113	.06352	-4.96330	3.00090	-.13503	.02314	-.02746	-.01018	.00027	.11772
-5.044	599.870	.12034	.37245	-5.02790	3.00250	-.08142	-.00564	-.02760	-.01047	.00014	.09457
-5.021	699.690	.05525	.57716	-5.00280	3.00410	-.05345	-.01544	-.02760	-.01022	.00025	.08917
-5.000	799.340	.11385	.23958	-4.99110	2.99870	-.06433	-.01521	-.02757	-.01008	.00025	.09211
-4.998	999.330	.14897	-.03327	-4.97990	2.99630	-.06387	-.01482	-.02804	-.01003	.00025	.09376
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2495/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.052	21.373	.06559	1.41490	-.03381	3.04110	-.03130	-.00757	-.03441	-.00856	.00053	.08414
-.027	50.325	.03594	.24810	-.00030	2.99500	-.05533	-.00843	-.03296	-.00742	.00032	.08537
-.003	99.646	.03708	-.20385	.02826	2.99260	-.07551	-.00005	-.02768	-.00704	.00030	.08585
.009	149.120	.05818	.85456	.04072	3.01090	-.07345	.00929	-.03316	-.00750	.00027	.08978
.014	199.070	.03251	-.07174	.04519	2.99780	-.07371	.01718	-.03295	-.00787	.00031	.09593
.023	298.550	.05226	.19002	.04713	3.00160	-.07529	.02881	-.02897	-.00939	.00015	.10572
.015	399.000	.04109	.07050	.03342	3.00190	-.05778	.02013	-.02564	-.01149	.00000	.10749
-.032	499.710	.00483	.24060	-.01622	2.99320	-.01350	.00594	-.02589	-.01125	.00012	.08808
-.017	599.480	.13615	.19973	.00081	2.99320	-.00350	.00116	-.02662	-.01059	.00019	.08748
-.014	799.280	.13094	-.08358	.00475	2.99540	-.00370	.00083	-.02695	-.01046	.00020	.08881
-.010	879.270	.13874	.05865	.00915	2.99690	-.00349	.00124	-.02673	-.01039	.00018	.08992
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2498/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.028	-51.493	1.16350	1.29170	5.03590	3.03420	.05356	.00892	-.03416	-.00678	.00038	.08339
4.944	16.122	.00366	.02499	4.96740	2.99290	.00343	.00589	-.03334	-.00531	.00017	.08495
5.000	49.384	.12935	-.00299	5.02530	2.99760	-.00343	.01334	-.03241	-.00594	.00006	.08689
5.013	99.165	.17265	-.39712	5.04360	2.99320	-.01367	.02501	-.02991	-.00668	.00008	.09204
5.033	198.310	.16642	.26771	5.06040	3.00990	-.00387	.03979	-.02541	-.01094	.00006	.09907
4.998	298.970	.13517	-.03228	5.02060	2.99370	.01134	.03762	-.02303	-.01292	-.00009	.10060
4.971	399.450	.03093	.22747	4.99910	2.99670	.04111	.02078	-.02654	-.01149	.00015	.08704
4.986	539.280	.20263	-.13281	5.00380	2.99450	.04356	.01873	-.02832	-.01068	.00018	.08834
	GRADIENT	.00023	.00155	.30811	.18564	.00115	.00037	-.00207	-.00033	.00001	.00527

V41B-D9A (IA22).ORBITER(O4RC:) W/ET SEPARATING (RVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2776/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.037	625.620	200.15000	-.35796	-.00814	.54865	-.04381	-.02550	-.00237	.00154	-.02205	.23312
-20.077	700.730	200.48000	.28902	-.00015	.41927	-.03763	-.02617	-.00084	.00281	-.03424	.23338
-19.955	799.350	200.02000	.00940	-.00145	.35338	-.02599	-.02374	-.00062	.00076	-.03506	.23306
-19.971	998.950	199.75000	-.01529	-.00268	.22324	.00527	-.02726	-.00165	.00048	-.02110	.23324
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2780/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-14.983	474.390	199.97000	.04892	-.00233	.51289	-.03459	-.02888	-.00133	-.00039	-.01877	.23393
-15.027	499.970	200.05000	-.02711	-.00358	.44334	-.02780	-.02645	-.00191	-.00020	-.01944	.23393
-15.039	550.040	200.12000	.34288	.00158	.37434	-.02567	-.02452	-.00112	.00212	-.02644	.23404
-15.053	600.390	200.36000	.16811	.00014	.31870	-.02025	-.02609	-.00200	.00187	-.02959	.23361
-15.029	700.090	200.22000	-.05485	-.00627	.25501	-.00346	-.02671	-.00196	.00107	-.02426	.23369
-14.907	798.400	199.81000	.04534	-.00171	.22694	.00376	-.02741	-.00187	.00049	-.02133	.23387
-15.016	999.380	200.06000	.09388	-.00210	.22111	.00528	-.02747	-.00189	.00052	-.02046	.23428
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2784/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.475	349.380	200.03000	.19437	.00178	.42010	-.01356	-.03148	-.00137	.00074	-.02162	.23426
-10.532	399.890	200.12000	-.13823	-.00393	.35229	-.00813	-.03071	-.00119	.00015	-.01800	.23400
-10.536	450.020	200.18000	.11179	-.00177	.31939	-.00804	-.02728	-.00192	-.00061	-.01829	.23379
-10.556	500.390	200.29000	-.11524	-.00480	.28906	-.00639	-.02643	-.00217	.00144	-.01946	.23373
-10.523	599.980	200.14000	.18242	-.00308	.23573	.00059	-.02708	-.00185	-.00039	-.02095	.23397
-10.453	699.800	200.01000	.10955	-.00295	.22178	.00469	-.02747	-.00186	.00052	-.01935	.23385
-10.491	799.190	200.14000	-.15220	-.00474	.21939	.00535	-.02757	-.00190	.00052	-.01894	.23394
-10.516	999.320	200.10000	-.11766	-.00465	.21932	.00530	-.02746	-.00188	.00052	-.01916	.23350
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2493/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.019	175.230	200.19000	.29997	-.00065	.37251	.01476	-.03494	-.00066	.00025	-.01242	.23396
-5.009	200.100	200.17000	-.17793	-.00638	.35678	.00978	-.03591	-.00029	-.00008	-.01422	.23415
-5.011	250.040	200.12000	.20082	-.00095	.32111	.00567	-.03516	-.00051	-.00045	-.01334	.23470
-5.039	300.430	200.14000	.17364	.00161	.29521	.00472	-.03477	-.00010	-.00016	-.01513	.23528
-5.033	400.450	200.22000	.10045	-.00403	.28605	.00050	-.03185	-.00017	-.00042	-.01158	.23336
-4.995	499.870	200.15000	-.08272	-.01023	.25185	-.00058	-.03098	-.00050	.00073	-.01488	.23359
-4.956	599.010	200.11000	.20734	-.00052	.23429	.00260	-.03120	-.00034	.00046	-.01530	.23507
-4.993	699.520	200.20000	-.20613	-.00467	.22603	.00465	-.03153	-.00025	.00040	-.01458	.23501
-4.998	799.420	200.17000	.01630	-.00496	.22616	.00465	-.03131	-.00025	.00041	-.01444	.23364
-4.996	999.330	200.20000	-.00516	-.00306	.22606	.00464	-.03144	-.00021	.00041	-.01453	.23405
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2496/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.018	19.597	200.03000	.19045	-.00264	.27311	.02329	-.03545	-.00100	-.00045	.00173	.23535
-.036	50.359	199.93000	.33007	.00475	.29746	.02711	-.03508	-.00138	-.00118	-.00513	.23381
-.032	100.250	200.07000	.26542	-.00107	.31018	.02148	-.03506	-.00157	-.00020	-.00802	.23453
-.028	150.220	200.01000	.51756	.00089	.29138	.01591	-.03459	-.00022	-.00031	-.01375	.23465
-.046	200.350	200.09000	.09773	-.00163	.27334	.01039	-.03476	-.00055	-.00030	-.01550	.23453
-.030	300.310	200.07000	.23439	-.00277	.27827	.00553	-.03456	.00021	.00026	-.01404	.23467
.008	399.760	200.01000	.17289	-.00514	.27088	-.00045	-.03092	-.00053	.00099	-.01356	.23477
.037	499.070	200.03000	.19169	.00013	.24150	.00196	-.03095	-.00037	.00002	-.01387	.23514
.001	599.450	200.04000	.03897	-.00199	.23081	.00468	-.03138	-.00024	.00040	-.01458	.23522
-.010	799.270	200.03000	-.04047	-.00422	.22661	.00481	-.03168	-.00020	.00040	-.01471	.23525
-.008	879.270	200.05000	-.05935	-.00406	.23009	.00483	-.03148	-.00023	.00039	-.01472	.23417
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2499/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
5.025	-51.774	200.18000	.00955	-.00024	.22357	.00506	-.03972	-.00089	-.00099	.00127	.23492
4.977	14.827	199.93000	.40498	.00438	.26539	.02149	-.03466	-.00089	-.00113	-.00639	.23514
4.972	50.008	200.02000	.28163	-.00022	.27574	.01093	-.03565	-.00162	.00026	-.00681	.23443
4.933	100.630	200.04000	-.16392	-.01135	.25033	.01772	-.03351	-.00033	.00024	-.01418	.23457
4.962	200.200	200.00000	.07080	-.00723	.26587	.00908	-.03412	-.00023	-.00027	-.01348	.23448
4.994	299.620	200.11000	.23410	-.00241	.27731	.00294	-.03207	-.00009	-.00038	-.01180	.23540
5.011	399.190	200.15000	-.01812	-.00132	.26278	.00129	-.03108	-.00040	.00042	-.01492	.23382
4.987	539.280	200.00000	.18198	.00021	.23535	.00497	-.03123	-.00023	.00038	-.01478	.23460
	GRADIENT	13.48756	.02731	.00030	.01821	.00145	-.00234	-.00006	-.00008	-.00043	.01586

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2776/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.037	625.620	-.01000	3.00154	-.00814	.21476	-.03284	.02199	-.01810	-.00331	.00159
-20.077	700.730	-.01100	2.99995	-.00015	.08507	-.02665	.00984	-.01877	-.00178	.00285
-19.955	799.350	-.00300	2.99995	-.00145	.01961	-.01502	.00695	-.01634	-.00156	.00091
-19.971	999.950	.01900	3.00159	-.00268	-.11077	.01625	.02295	-.01986	-.00279	.00052
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2780/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.983	474.390	-.00400	3.00063	-.00233	.18160	-.02371	.02492	-.02154	-.00227	-.00034
-15.027	499.970	.00000	3.00128	-.00358	.11180	-.01690	.02428	-.01910	-.00284	-.00016
-15.039	550.040	-.00200	3.00042	.00158	.04268	-.01477	.01730	-.01717	-.00205	.00216
-15.053	600.390	.00000	3.00146	.00014	-.01296	-.00935	.01415	-.01874	-.00294	.00191
-15.029	700.090	.01300	3.00167	-.00527	-.08091	.00745	.01950	-.01935	-.00290	.00111
-14.907	799.400	.01800	3.00161	-.00171	-.10463	.01465	.02240	-.02006	-.00281	.00053
-15.016	999.380	.01900	3.00170	-.00210	-.11059	.01618	.02329	-.02012	-.00283	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2764/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.475	349.380	.01100	3.00102	.00178	.09049	-.00273	.02165	-.02417	-.00230	.00078
-10.532	399.890	.01300	3.00083	-.00393	.02269	.00270	.02546	-.02341	-.00212	.00019
-10.536	450.020	.01100	3.00157	-.00177	-.00991	.00280	.02522	-.01997	-.00235	-.00057
-10.556	500.390	.01200	3.00181	-.00480	-.04091	.00445	.02406	-.01912	-.00310	.00148
-10.523	599.980	.01500	3.00158	-.00808	-.09412	.01143	.02255	-.01977	-.00278	-.00034
-10.453	698.100	.01900	3.00166	-.00296	-.10786	.01551	.02412	-.02017	-.00279	.00056
-10.491	799.130	.01900	3.00174	-.00474	-.11005	.01617	.02451	-.02027	-.00283	.00057
-10.516	999.330	.01900	3.00165	-.00465	-.11009	.01614	.02432	-.02016	-.00281	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (SVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2493/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.019	175.230	.03440	3.00065	-.00065	.03941	.02570	.03150	-.02756	-.00160	.00030
-5.009	200.100	.02920	3.00018	-.00638	.02359	.02073	.02971	-.02652	-.00123	-.00003
-5.011	250.040	.02380	3.00035	-.00095	-.01194	.01662	.03058	-.02778	-.00145	-.00041
-5.039	300.430	.02180	2.99989	.00161	-.03774	.01567	.02878	-.02740	-.00104	-.00011
-5.033	400.450	.01750	2.99983	-.00403	-.04651	.01143	.03228	-.02448	-.00111	-.00037
-4.995	499.870	.01490	3.00013	-.01023	-.08084	.01035	.02000	-.02361	-.00144	.00078
-4.956	599.010	.01710	3.00002	-.00052	-.09301	.01352	.02053	-.02383	-.00128	.00050
-4.993	699.520	.01650	2.99997	-.00467	-.10637	.01557	.02926	-.02417	-.00119	.00045
-4.998	799.420	.01930	2.99986	-.00498	-.10595	.01585	.02936	-.02395	-.00118	.00045
-4.996	999.330	.01650	2.99986	-.00396	-.10329	.01555	.02931	-.02408	-.00114	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2496/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.018	19.597	.03715	3.00114	-.00264	-.06280	.03432	.04603	-.02900	-.00194	-.00041
-.036	50.359	.04171	3.00155	.00475	-.03837	.03914	.03916	-.02764	-.00233	-.00114
-.032	100.250	.03730	3.00167	-.00107	-.02547	.03851	.03825	-.02762	-.00252	-.00016
-.028	150.220	.03141	3.00011	.00009	-.04489	.02695	.03060	-.02714	-.00117	-.00026
-.046	200.350	.02558	3.00043	-.00163	-.06270	.02144	.02822	-.02731	-.00149	-.00026
-.030	300.310	.02166	2.99947	-.00277	-.05750	.01667	.03025	-.02712	-.00074	.00031
.008	399.760	.01585	3.00014	-.00514	-.06513	.01059	.03076	-.02337	-.00147	.00103
.037	499.070	.01668	3.00007	.00013	-.09438	.01300	.02833	-.02351	-.00131	.00007
.001	599.450	.01634	2.99989	-.00199	-.10474	.01571	.02938	-.02395	-.00118	.00045
-.010	799.270	.01871	2.99982	-.00422	-.10598	.01594	.02855	-.02424	-.00114	.00045
-.008	879.270	.01874	2.99978	-.00408	-.10553	.01556	.02956	-.02404	-.00118	.00043
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2499/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.025	-51.774	.01930	3.00074	-.00024	-.11440	.01716	.04585	-.03223	-.00184	-.00095
4.977	14.827	.03530	3.00092	.00439	-.08732	.03257	.03809	-.02718	-.00184	-.00108
4.972	50.008	.03330	3.00172	-.00022	-.05067	.03001	.03569	-.02818	-.00257	.00031
4.933	100.630	.03200	3.00026	-.01135	-.05759	.02831	.03034	-.02603	-.00129	.00028
4.962	200.200	.02430	2.99988	-.00738	-.05707	.02017	.03106	-.02654	-.00118	-.00023
4.994	299.620	.01910	2.99971	-.00241	-.06035	.01404	.03273	-.02459	-.00104	-.00034
5.011	399.190	.01650	3.00002	-.00132	-.08470	.01238	.02959	-.02360	-.00135	.00047
4.987	539.280	.01900	2.99939	.00021	-.10217	.01606	.02973	-.02375	-.00118	.00043
	GRADIENT	.00238	.20240	.00030	-.00454	.00220	.00257	-.00183	-.00012	-.00007

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2776/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.037	625.620	200.15000	-.35795	.03165	-.16837	441.80000	.00000	.00000	661.46000	.00000	.00000
-20.077	700.730	200.46000	.28802	.11610	.01021	442.39000	.00000	.00000	662.07000	.00000	.00000
-19.955	799.350	200.02000	.00940	.02280	-.11605	441.81000	.00000	.00000	661.20000	.00000	.00000
-19.971	998.950	199.75000	-.01629	.05016	-.06413	442.14000	.00000	.00000	661.70000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2780/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.983	474.390	199.97000	.04892	.16406	.10300	438.53000	.00000	.00000	656.30000	.00000	.00000
-15.027	499.970	200.06000	-.02711	.01333	-.15333	438.87000	.00000	.00000	655.80000	.00000	.00000
-15.039	550.040	200.12000	.34268	.08322	.02201	439.02000	.00000	.00000	657.03000	.00000	.00000
-15.053	600.390	200.33000	.16911	.01608	-.08073	439.01000	.00000	.00000	657.02000	.00000	.00000
-15.029	700.090	200.22000	-.05403	.02313	-.04024	439.23000	.00000	.00000	657.34000	.00000	.00000
-14.987	799.400	199.81000	.04534	.04233	-.03351	439.30000	.00000	.00000	656.85000	.00000	.00000
-15.016	999.320	200.09000	.05009	.04378	-.04181	439.05000	.00000	.00000	657.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2784/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.475	349.390	200.03000	.19437	.08029	-.10403	436.80000	.00000	.00000	652.83000	.00000	.00000
-10.532	399.600	200.12000	-.13023	.00859	-.10035	436.80000	.00000	.00000	652.94000	.00000	.00000
-10.535	450.020	200.19000	.11179	.01349	-.07436	436.70000	.00000	.00000	653.53000	.00000	.00000
-10.556	500.390	200.28000	-.11524	.00807	-.06528	436.78000	.00000	.00000	653.67000	.00000	.00000
-10.523	599.980	200.14000	-.18242	.03326	-.01195	436.82000	.00000	.00000	653.44000	.00000	.00000
-10.453	699.800	200.01000	.10005	.03094	-.01335	436.34000	.00000	.00000	653.03000	.00000	.00000
-10.491	799.190	200.14000	-.15220	.03216	-.01810	436.38000	.00000	.00000	652.60000	.00000	.00000
-10.516	999.320	200.10000	-.11768	.03479	-.02282	436.44000	.00000	.00000	653.17000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2493/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CYFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.019	175.230	200.19000	.29997	.02518	-.02409	440.31000	.00000	.00000	659.87000	.00000	.00000
-5.009	200.100	200.17000	-.17793	.00326	-.07075	440.32000	.00000	.00000	659.83000	.00000	.00000
-5.011	250.040	200.12000	.20082	-.00760	-.07430	440.33000	.00000	.00000	659.79000	.00000	.00000
-5.039	300.430	200.14000	.17334	.01525	-.02510	440.72000	.00000	.00000	659.57000	.00000	.00000
-5.033	400.450	200.22000	.10045	-.00058	-.05453	440.30000	.00000	.00000	658.80000	.00000	.00000
-4.995	499.870	200.15000	-.08272	-.00553	-.05278	440.32000	.00000	.00000	659.07000	.00000	.00000
-4.956	599.010	200.11000	.20734	.02137	-.01144	439.37000	.00000	.00000	658.30000	.00000	.00000
-4.993	699.820	200.20000	-.20513	.02161	-.01509	440.10000	.00000	.00000	658.49000	.00000	.00000
-4.998	799.420	200.17000	.01830	.02246	-.01640	439.33000	.00000	.00000	657.94000	.00000	.00000
-4.996	899.330	200.20000	-.00515	.02384	-.01703	439.33000	.00000	.00000	658.39000	.00000	.00000
	GRADIENT	00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2496/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CYFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.018	19.597	200.03000	.19045	.01602	-.00102	444.34000	.00000	.00000	665.45000	.00000	.00000
-.036	50.359	199.99000	.33007	.01632	.00220	444.33000	.00000	.00000	665.28000	.00000	.00000
-.032	100.250	200.07000	.23542	.01157	-.00734	444.33000	.00000	.00000	664.93000	.00000	.00000
-.028	150.220	200.01000	.51795	-.00726	-.04079	445. 3000	.00000	.00000	666.18000	.00000	.00000
-.046	200.350	200.03000	.09773	.01547	.00431	444.32000	.00000	.00000	665.71000	.00000	.00000
-.030	300.310	200.07000	.25439	.00276	-.02037	444.38000	.00000	.00000	665.18000	.00000	.00000
.008	399.760	200.01000	.17286	-.01608	-.05332	444.38000	.00000	.00000	665.68000	.00000	.00000
.037	499.070	200.03000	.19169	.01625	.00254	444.31000	.00000	.00000	665.40000	.00000	.00000
.001	599.450	200.04000	.08997	.01536	-.00180	444. 6000	.00000	.00000	664.73000	.00000	.00000
-.010	799.270	200.03000	-.04047	.01630	-.00359	444.32000	.00000	.00000	664.82000	.00000	.00000
-.008	879.270	200.05000	-.05935	.01686	-.00447	444.30000	.00000	.00000	665.03000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2499/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CYFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.025	-51.774	200.18000	.00955	.01204	-.00186	447.37000	.00000	.00000	669.53000	.00000	.00000
4.977	14.827	199.99000	.40498	.01418	.00466	446.40000	.00000	.00000	668.22000	.00000	.00000
4.972	50.008	200.02000	.23163	.00940	-.00057	446.43000	.00000	.00000	668.41000	.00000	.00000
4.933	100.630	200.04000	-.16382	.01758	.00503	446.46000	.00000	.00000	668.64000	.00000	.00000
4.962	200.200	200.00000	.07080	.00699	-.00376	447.16000	.00000	.00000	669.07000	.00000	.00000
4.994	299.620	200.11000	.23410	-.00615	-.02778	446.42000	.00000	.00000	669.94000	.00000	.00000
5.011	399.190	200.15000	-.01812	-.00849	-.02889	446.73000	.00000	.00000	668.53000	.00000	.00000
4.987	539.280	200.00000	.18198	.01513	.00241	446.78000	.00000	.00000	668.64000	.00000	.00000
	GRADIENT	13.48756	.02731	.00096	.00031	30. 1398	.00000	.00000	45.06778	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK039) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2776/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.037	625.620	979.61000	979.61000	86.00000	979.61000	979.27000	87.00000	76.00000	21.95000	99.64200
-20.077	700.730	979.53000	979.53000	86.00000	979.53000	979.27000	87.00000	76.00000	17.05700	99.64200
-19.955	799.350	979.71000	979.71000	86.00000	979.71000	979.27000	87.00000	76.00000	15.77100	99.64200
-19.971	998.950	979.47000	979.47000	86.00000	979.47000	979.27000	87.00000	76.00000	20.68400	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2780/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.983	474.390	982.12000	982.12000	85.00000	982.12000	981.71000	87.00000	77.00000	15.52700	99.76800
-15.027	499.970	982.39000	982.39000	85.00000	982.39000	981.71000	87.00000	77.00000	11.16300	99.76800
-15.039	550.040	982.25000	982.25000	85.00000	982.25000	981.71000	87.00000	77.00000	7.59390	99.76800
-15.053	600.390	982.23000	982.23000	85.00000	982.23000	981.71000	87.00000	77.00000	4.44090	99.76800
-15.029	700.090	982.23000	982.23000	85.00000	982.23000	981.71000	87.00000	77.00000	5.63760	99.76800
-14.907	799.400	981.93000	981.93000	85.00000	981.93000	981.71000	87.00000	77.00000	8.53050	99.76800
-15.016	999.390	981.90000	981.90000	85.00000	981.90000	981.71000	87.00000	77.00000	11.55000	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2784/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.475	349.380	981.47000	981.47000	84.00000	981.47000	981.10000	86.00000	78.00000	13.42300	99.64200
-10.532	399.690	981.44000	981.44000	84.00000	981.44000	981.10000	86.00000	78.00000	8.83900	99.64200
-10.536	450.020	981.37000	981.37000	84.00000	981.37000	981.10000	86.00000	78.00000	5.20550	99.64200
-10.556	500.390	981.53000	981.53000	84.00000	981.38000	981.10000	86.00000	78.00000	4.38820	99.64200
-10.523	599.930	981.70000	981.70000	84.00000	981.70000	981.10000	86.00000	78.00000	4.98350	99.64200
-10.453	693.800	981.57000	981.57000	84.00000	981.57000	981.10000	86.00000	78.00000	6.56220	99.64200
-10.491	799.190	981.41000	981.41000	84.00000	981.41000	981.10000	86.00000	78.00000	7.63430	99.64200
-10.516	999.320	981.30000	981.30000	84.00000	981.30000	981.10000	86.00000	78.00000	9.14510	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (UVK039) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2493/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.019	175.230	976.27000	976.27000	79.00000	976.2700	976.80000	64.00000	74.00000	6.43460	99.64200
-5.009	200.100	976.29000	976.29000	79.00000	976.2900	976.80000	64.00000	74.00000	6.47910	99.64200
-5.011	250.040	976.64000	976.64000	79.00000	976.6400	976.80000	64.00000	74.00000	4.68540	99.64200
-5.039	300.430	976.81000	976.81000	79.00000	976.8100	976.80000	64.00000	74.00000	2.12430	99.64200
-5.033	400.450	976.64000	976.64000	79.00000	976.6400	976.80000	64.00000	74.00000	1.58130	99.64200
-4.995	499.870	976.55000	976.55000	79.00000	976.5500	976.80000	64.00000	74.00000	1.49040	99.64200
-4.956	599.010	976.87000	976.87000	79.00000	976.8700	976.80000	64.00000	74.00000	1.79210	99.64200
-4.993	699.520	977.16000	977.16000	79.00000	977.1600	976.80000	64.00000	74.00000	2.30240	99.64200
-4.998	799.420	977.31000	977.31000	79.00000	977.3100	976.80000	64.00000	74.00000	2.94150	99.64200
-4.996	999.330	977.01000	977.01000	79.00000	977.0100	976.80000	64.00000	74.00000	4.05110	99.64200
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2496/ 0 RN/L = .85 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.018	19.597	976.66000	976.66000	79.00000	976.6600	977.36000	64.00000	74.00000	-.26834	99.76800
-.036	50.359	976.42000	976.42000	79.00000	976.4200	977.36000	64.00000	74.00000	.35221	99.76800
-.032	100.250	976.89000	976.89000	79.00000	976.8800	977.38000	64.00000	74.00000	.31469	99.76800
-.028	150.220	976.75000	976.75000	79.00000	976.7500	977.36000	64.00000	74.00000	-.35687	99.76800
-.046	200.350	977.04000	977.04000	79.00000	977.0400	977.36000	64.00000	74.00000	-.05456	99.76800
-.030	300.310	977.23000	977.23000	79.00000	977.2300	977.38000	64.00000	74.00000	-.78503	99.76800
.008	399.760	977.46000	977.46000	79.00000	977.4600	977.38000	64.00000	74.00000	-.91467	99.76800
.037	499.070	977.57000	977.57000	79.00000	977.5700	977.38000	64.00000	74.00000	-1.31770	99.76800
.001	599.450	977.57000	977.57000	79.00000	977.5700	977.38000	64.00000	74.00000	-1.15770	99.76800
-.010	799.270	977.70000	977.70000	79.00000	977.7000	977.38000	64.00000	74.00000	-.70431	99.76800
-.008	879.270	977.59000	977.59000	79.00000	977.5900	977.38000	64.00000	74.00000	-.33523	99.76800
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2499/ 0 RN/L = .85 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.025	-51.774	976.71000	976.71000	79.00000	976.7100	976.68889	64.00000	74.00000	-2.70880	99.76800
4.977	14.827	977.28000	977.28000	79.00000	977.2800	976.68889	64.00000	74.00000	-2.09970	99.76800
4.972	50.008	976.56000	976.56000	79.00000	976.5500	976.68889	64.00000	74.00000	-1.71320	99.76800
4.933	100.630	976.90000	976.90000	79.00000	976.9000	976.68889	64.00000	74.00000	-1.43970	99.76800
4.962	200.200	977.03000	977.03000	79.00000	977.0300	976.68889	64.00000	74.00000	-.63317	99.76800
4.994	299.620	977.34000	977.34000	79.00000	977.3400	976.68889	64.00000	74.00000	-1.07800	99.76800
5.011	399.190	976.79000	976.79000	79.00000	976.7900	976.68889	64.00000	74.00000	-1.54410	99.76800
4.987	539.280	976.90000	976.90000	79.00000	976.9000	976.68889	64.00000	74.00000	-1.57770	99.76800
	GRADIENT	65.91219	65.91219	5.32812	65.9121	65.87239	4.31645	4.99089	-.14161	6.70981

V41B-09A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK039) (04 MAY 77

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1329.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2776/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.037	625.620	200.15000	-.35796	-20.04700	2.99340	-.42898	-.02408	-.03677	-.00811	.00064	.10816
-20.077	700.730	200.48000	.28902	-20.08200	2.99920	-.44131	-.01241	-.03907	-.00746	.00070	.12299
-19.935	789.350	200.02000	.00940	-19.93000	2.99340	-.47885	.02345	-.03812	-.00753	.00089	.14979
-19.971	999.950	199.75000	-.01529	-19.98200	2.99880	-.30399	-.00740	-.03773	-.00733	.00053	.13777
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2780/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.983	474.390	199.97000	.04692	-14.99700	2.99930	-.35510	-.00366	-.03570	-.00833	.00039	.11510
-15.027	499.970	200.03000	-.02711	-15.02700	2.99730	-.31946	-.02337	-.03754	-.00799	.00046	.10024
-15.039	550.040	200.12000	.34208	-15.04100	3.00200	-.31418	-.02140	-.03048	-.00765	.00052	.10558
-15.053	600.390	200.38000	.16311	-15.05300	3.00160	-.32346	-.00342	-.03829	-.00734	.00048	.11496
-15.029	700.090	200.22000	-.05486	-15.01600	2.99340	-.34856	.01870	-.03638	-.00761	.00049	.13704
-14.907	798.400	199.81000	.04534	-14.88800	2.99880	-.33345	.02506	-.03258	-.00912	.00049	.14987
-15.016	999.380	200.06000	.09338	-14.99700	2.99930	-.21831	-.03667	-.03439	-.00817	.00034	.10857
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2764/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.475	349.380	200.03000	.19437	-10.46400	3.00280	-.26288	-.00189	-.03585	-.01012	.00055	.11427
-10.532	399.890	200.12000	-.13823	-10.51900	2.99700	-.22269	-.02219	-.03723	-.00845	.00035	.09831
-10.536	450.020	200.18000	.11179	-10.52500	2.99880	-.22553	-.01589	-.03643	-.00815	.00036	.10237
-10.556	500.390	200.28000	-.11524	-10.54400	2.99700	-.23465	-.00522	-.03612	-.00771	.00033	.10725
-10.523	599.980	200.14000	-.18242	-10.50800	2.99350	-.24736	.01526	-.03422	-.00793	.00025	.12395
-10.453	698.800	200.01000	.10555	-10.43400	2.99870	-.22953	.01645	-.03080	-.00939	.00020	.13118
-10.491	799.190	200.14000	-.15220	-10.47200	2.99700	-.16117	-.01812	-.02955	-.00943	.00014	.10495
-10.516	999.320	200.10000	-.11766	-10.49700	2.99700	-.14059	-.03047	-.03092	-.00914	.00018	.10195
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK039) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2493/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.019	175.230	200.19000	.29997	-4.99430	3.00000	-.17190	-.00915	-.03532	-.00943	.00045	.10036
-5.009	200.100	200.17000	-.17793	-4.97950	2.99360	-.16424	-.00823	-.03637	-.00930	.00040	.09857
-5.011	250.040	200.12000	.20082	-4.98670	2.99940	-.14147	-.01114	-.03799	-.00929	.00031	.09272
-5.039	300.430	200.14000	.17364	-5.01720	3.00150	-.13409	-.00842	-.03662	-.00855	.00041	.09263
-5.033	400.450	200.22000	.10045	-5.01580	2.99580	-.14042	.00570	-.03515	-.00756	.00037	.09916
-4.995	499.870	200.15000	-.08272	-4.97970	2.99390	-.14425	.02034	-.03105	-.00905	.00040	.11161
-4.956	599.010	200.11000	.20734	-4.93870	2.99350	-.11657	.01506	-.02850	-.01129	.00023	.11430
-4.993	699.520	200.20000	-.20813	-4.97460	2.99330	-.09820	-.01247	-.02704	-.01054	.00013	.09075
-4.998	799.420	200.17000	.01830	-4.97030	2.99300	-.08348	-.01525	-.02788	-.01013	.00025	.09037
-4.996	999.330	200.20000	-.00516	-4.97740	2.99380	-.06354	-.01482	-.02826	-.01020	.00025	.09398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2496/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.018	19.597	200.03000	.19045	.01892	2.99350	-.08382	-.02052	-.02173	-.00980	.00044	.09108
-.036	50.359	199.99000	.33007	.00820	3.00630	-.09381	-.01683	-.02893	-.01040	.00034	.09105
-.032	100.250	200.07000	.26542	.00539	3.00050	-.08277	-.00747	-.03105	-.00850	.00028	.09003
-.028	150.220	200.01000	.51795	.00327	3.00100	-.07164	-.00323	-.03316	-.00795	.00032	.08591
-.046	200.350	200.03000	.09773	-.02010	2.99080	-.07149	.00504	-.03357	-.00887	.00021	.09065
-.030	300.310	200.07000	.23439	-.00843	2.99670	-.07089	.01735	-.03426	-.00805	.00029	.09766
.008	399.760	200.01000	.17295	.02385	2.99500	-.07029	.02361	-.02891	-.01030	.00019	.10653
.037	499.070	200.03000	.19169	.05405	3.00020	-.04451	.02271	-.02379	-.01173	.00009	.10574
.001	599.450	200.04000	.06997	.01927	2.99790	-.00758	.00163	-.02823	-.01079	.00014	.08704
-.010	799.270	200.03000	-.04047	.00977	2.99370	-.00530	.00090	-.02897	-.01039	.00019	.08946
-.008	879.270	200.05000	-.05985	.01112	2.99590	-.00547	.00122	-.02863	-.01039	.00018	.08990
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2499/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.025	-51.774	200.18000	.00955	5.04400	3.00050	.03038	.00126	-.02802	-.01028	.00038	.08522
4.977	14.827	199.98000	.40493	5.01270	3.00530	-.01049	-.00013	-.03136	-.00848	.00028	.08513
4.972	50.008	200.02000	.28163	5.00490	3.00150	-.01352	.00280	-.03263	-.00749	.00019	.08893
4.933	100.630	200.04000	-.16392	4.96450	2.99330	-.01291	.01458	-.03105	-.00728	.00015	.08905
4.962	200.200	200.00000	.07080	4.99350	2.99200	-.01186	.03061	-.02856	-.00954	.00010	.09676
4.994	299.620	200.11000	.23410	5.01350	2.99730	-.00214	.03851	-.02461	-.01197	.00010	.10024
5.011	399.190	200.15000	-.01812	5.02790	2.99370	.02311	.03122	-.02328	-.01253	-.00001	.09689
4.987	539.280	200.00000	.18198	5.00550	3.00010	.04971	.01839	-.02856	-.01074	.00019	.08793
	GRADIENT	13.48755	.02731	.33808	.20269	-.00071	-.00001	-.00212	-.00057	.00002	.00574

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK040) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2777/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.048	625.490	400.19000	.03973	.00018	.38940	-.03343	-.02451	-.00100	.00200	-.03589	.23335
-20.003	699.350	399.81000	.39358	-.00116	.29288	-.01324	-.02539	-.00077	.00139	-.03255	.23329
-19.961	798.720	399.78000	.27739	-.00269	.25602	-.00099	-.02663	-.00193	.00100	-.02464	.23371
-19.949	993.090	399.58000	.23205	.00535	.22331	.00530	-.02733	-.00185	.00049	-.02155	.23347
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2781/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-15.034	475.040	400.17000	-.22571	-.00399	.40956	-.02835	-.02600	-.00204	.00173	-.02730	.23378
-15.061	500.000	400.21000	.33528	-.00244	.34661	-.01931	-.02619	-.00197	.00199	-.02478	.23402
-15.021	549.460	399.93000	.14469	-.00220	.29583	-.01201	-.02703	-.00189	.00121	-.02654	.23372
-14.990	569.250	400.10000	.09118	-.00522	.25477	-.00425	-.02764	-.00181	-.00016	-.02483	.23391
-14.975	698.600	399.87000	-.08355	-.00520	.22594	.00335	-.02745	-.00186	.00050	-.02135	.23359
-14.970	798.630	399.69000	-.02520	-.00300	.22074	.00526	-.02741	-.00185	.00052	-.02048	.23378
-15.094	1000.000	400.34000	-.00164	-.00331	.22044	.00528	-.02732	-.00190	.00052	-.02028	.23393
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2765/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.517	349.970	400.13000	.00485	-.00372	.38548	-.01370	-.03042	-.00109	.00010	-.01916	.23429
-10.557	399.830	400.19000	.19408	-.00371	.33266	-.01117	-.02579	-.00222	-.00031	-.01745	.23405
-10.512	449.240	400.05000	-.29210	-.00699	.28725	-.00770	-.02649	-.00210	.00167	-.02069	.23385
-10.495	499.110	400.05000	-.19587	-.00854	.24939	-.00206	-.02715	-.00193	.00072	-.02051	.23408
-10.472	598.620	399.95000	.19167	-.00256	.22878	.00275	-.02716	-.00187	.00040	-.02015	.23408
-10.477	698.630	399.93000	.11085	-.00087	.21936	.00523	-.02759	-.00189	.00053	-.01889	.23426
-10.525	799.360	400.10000	.23077	.00107	.21689	.00528	-.02761	-.00187	.00052	-.01876	.23367
-10.573	999.940	400.31000	.09796	-.00275	.21871	.00526	-.02764	-.00187	.00052	-.01867	.23444
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (RVK0401 (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DSETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2494/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-5.021	175.190	399.87000	.03993	-.00781	.36152	.01223	-.03089	-.00084	-.00059	-.01340	.23483
-4.993	199.180	400.01000	.49726	.00031	.36940	.00824	-.03088	- 00027	-.00038	-.01195	.23492
-4.985	249.020	399.90000	.09377	.00389	.33385	.00180	-.03335	.00001	-.00043	-.01269	.23420
-5.011	299.440	400.05000	.11882	-.00222	.30203	.00012	-.03425	.00012	-.00041	-.01379	.23466
-4.988	399.700	400.04000	.30078	-.00517	.27285	-.00199	-.03054	-.00035	.00111	-.01402	.23390
-4.983	498.830	399.93000	.09054	-.00339	.24132	.00118	-.03074	-.00040	-.00012	-.01637	.23449
-4.975	598.630	400.00000	.26156	.00471	.22084	.00446	-.03123	-.00024	.00041	-.01490	.23466
-5.051	699.490	400.00000	.43476	.00283	.22787	.00459	-.03147	-.00021	.00041	-.01480	.23441
-5.035	799.830	400.23000	-.02093	-.00510	.22048	.00470	-.03120	-.00022	.00040	-.01473	.23371
-4.999	899.350	400.13000	.26157	-.00114	.22791	.00471	-.03133	-.00024	.00041	-.01474	.23357
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-.067	21.277	400.01000	.23397	-.00022	.32622	.03371	-.03550	-.00195	-.00039	-.00658	.23443
.017	48.645	400.18000	.53347	-.00415	.32340	.03340	-.03789	-.00056	-.00022	-.00891	.23426
.042	93.345	400.11000	.21013	.00030	.31603	.01782	-.03[illegible]	-.00028	.00000	-.01247	.23507
.016	148.930	400.03000	.20078	.00143	.31603	.00203	-.03[illegible]	-.00043	-.00005	-.01283	.23449
-.004	199.210	400.12000	.15082	.00346	.29286	.00673	-.03988	-.00014	-.00062	-.01423	.23619
.026	298.710	400.16000	.05372	-.00302	.28322	.00121	-.03124	-.00041	-.00043	-.01156	.23482
.028	398.650	400.11000	-.18203	-.00516	.25335	.00044	-.03113	-.00044	.00046	-.01540	.23459
.018	498.820	400.11000	.35226	.00327	.23548	.00329	-.03127	-.00028	.00040	-.01544	.23436
-.020	598.480	400.14000	.07341	-.00225	.23202	.00109	-.03145	-.00020	.00039	-.01487	.23443
-.022	798.480	400.11000	.30411	-.00187	.23243	.00098	-.03145	-.00021	.00038	-.01483	.23498
-.015	879.310	400.18000	.12228	-.00120	.23208	.00503	-.03138	-.00021	.00038	-.01489	.23466
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2500/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
4.992	-50.542	400.15000	.18547	-.00062	.29017	.03180	-.03473	-.00221	-.00046	-.00515	.23495
5.042	13.214	400.21000	.21311	.00570	.28046	.02530	-.03891	-.00088	-.00013	-.01105	.23409
5.006	49.019	400.15000	.19408	.00133	.29207	.01783	-.03512	-.00019	.00001	-.01343	.23412
5.002	98.908	400.20000	.51914	.00040	.2[illegible]303	.01050	-.03405	-.00084	-.00073	-.01330	.23444
5.022	198.540	400.24000	-.00809	-.00209	.27546	.00308	-.03410	.00010	.00019	-.01322	.23395
5.033	298.490	400.22000	.00492	-.00111	.27084	.00057	-.03127	-.00043	.00059	-.01367	.23399
5.009	398.650	400.21000	.49313	.00033	.24676	.00283	-.03100	-.00033	.00009	-.01578	.23468
4.988	539.360	400.20000	.03368	-.00537	.23561	.00533	-.03151	-.00022	.00037	-.01462	.23485
	GRADIENT	30.29382	.01613	.00043	.02266	.00181	-.00272	-.00007	-.00001	-.00084	.01772

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK040) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2777/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.048	625.490	-.00900	3.00012	.00018	.05545	-.02246	.00815	-.01711	-.00194	.00204
-20.003	699.350	.00600	3.00016	-.00116	-.04077	-.00228	.01145	-.01800	-.00171	.00144
-19.961	798.720	.01400	3.00158	-.00268	-.07745	.00997	.01934	-.01924	-.00287	.00105
-19.949	999.090	.01900	3.00165	.00535	-.11096	.01628	.02253	-.01997	-.00280	.00054
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2781/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.034	475.040	-.00300	3.00139	-.00399	.07439	-.01777	.01637	-.01866	-.00297	.00177
-15.061	500.000	.00200	3.00144	-.00244	.01529	-.00892	.01892	-.01884	-.00290	.00204
-15.021	549.460	.00600	3.00150	-.00220	-.04558	-.00113	.01714	-.01969	-.00283	.00126
-14.990	599.250	.01200	3.00152	-.00522	-.07645	.00664	.01835	-.02030	-.00275	-.00011
-14.975	699.600	.01700	3.00170	-.00520	-.10523	.01174	.02232	-.02011	-.00280	.00055
-14.970	799.630	.01900	3.00170	-.00300	-.11020	.01613	.02317	-.02008	-.00279	.00057
-15.094	1000.000	.01900	3.00171	-.00331	-.11051	.01615	.02337	-.01998	-.00283	.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2785/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.517	349.970	.00900	3.00062	-.00372	.05592	-.00287	.02430	-.02311	-.00202	.00014
-10.557	399.830	.00900	3.00181	-.00371	.00334	-.00035	.02593	-.01850	-.00315	-.00027
-10.512	449.240	.01000	3.00179	-.00339	-.04226	.00313	.02277	-.01918	-.00303	.00171
-10.495	499.110	.01400	3.00164	-.00854	-.07993	.00876	.02292	-.01986	-.00286	.00077
-10.472	598.620	.01700	3.00166	-.00255	-.10091	.01358	.02333	-.01986	-.00280	.00045
-10.477	698.630	.01900	3.00167	-.00087	-.11022	.01606	.02458	-.02028	-.00282	.00057
-10.525	799.360	.01900	3.00173	.00107	-.11031	.01609	.02463	-.02032	-.00280	.00057
-10.573	999.940	.01900	3.00165	-.00275	-.11043	.01608	.02474	-.02035	-.00280	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
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V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK040) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2494/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.021	175.190	.031	3.00061	-.00761	.01816	.02318	.03057	-.02831	-.00158	-.00054
-4.983	199.180	.02750	3.00009	.00581	.01761	.01918	.03194	-.02891	-.00121	-.00033
-4.985	249.020	.02090	2.99971	.00259	.00069	.01274	.03093	-.02797	-.00093	-.00039
-5.011	299.440	.01790	2.99982	-.00222	-.03081	.01108	.03022	-.02696	-.00082	-.00037
-4.983	349.700	.01470	3.00017	-.00517	-.06058	.00903	.02935	-.02315	-.00149	.00115
-4.983	498.830	.01600	3.00009	-.00389	-.09177	.01213	.02755	-.02336	-.00134	-.00008
-4.975	598.860	.01850	2.99939	.00471	-.10451	.01541	.02906	-.02384	-.00118	.00046
-5.051	699.490	.01850	2.99937	.00263	-.10544	.01564	.02916	-.02408	-.00115	.00045
-5.035	799.830	.01850	2.99990	-.00510	-.10517	.01555	.02928	-.02380	-.00116	.00045
-4.998	999.350	.01850	2.99994	-.00114	-.10519	.01565	.02919	-.02398	-.00118	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.067	21.277	.04989	3.00232	-.00022	-.01060	.04474	.03771	-.03105	-.00289	-.00034
.017	48.845	.04404	3.00115	-.00415	-.01267	.03944	.03441	-.02994	-.00190	-.00017
.042	98.345	.03394	3.00040	.00350	-.02059	.02657	.03189	-.02940	-.00133	.00005
.016	148.930	.02827	3.00027	.00143	-.02332	.02014	.03168	-.02809	-.00137	-.00050
-.004	199.210	.02296	2.99994	.00246	-.04180	.01677	.03209	-.02725	-.00108	-.00057
.026	298.710	.01802	3.00002	-.00302	-.05030	.01223	.03102	-.02378	-.00135	-.00038
.023	398.650	.01803	3.00003	-.00316	-.05533	.01150	.03103	-.02336	-.00139	.00050
.018	498.820	.01774	2.99993	.00627	-.09730	.01436	.02838	-.02381	-.00123	.00044
-.020	599.490	.01903	2.99995	-.00225	-.10416	.01616	.02959	-.02398	-.00115	.00043
-.022	799.480	.01902	2.99987	-.00187	-.10411	.01614	.02956	-.02399	-.00116	.00043
-.015	879.310	.01903	2.99990	-.00180	-.10400	.01615	.02952	-.02392	-.00116	.00042
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2500/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.992	-50.542	.04540	3.00252	-.00062	-.04703	.04268	.03932	-.02726	-.00316	-.00042
5.042	13.214	.03870	3.00100	.00570	-.03334	.03500	.03351	-.02843	-.00183	-.00008
5.006	49.019	.03300	3.00017	.00133	-.04584	.02895	.03114	-.02863	-.00114	.00005
5.002	98.908	.02600	3.00050	.00040	-.05499	.02160	.03078	-.02716	-.00159	-.00068
5.022	198.540	.02190	2.99959	-.00309	-.08547	.01718	.03135	-.02661	-.00085	.00024
5.033	298.490	.01670	3.00011	-.00111	-.06735	.01167	.03039	-.02378	-.00139	.00073
5.009	398.650	.01730	2.99987	.00683	-.09144	.01364	.02822	-.02351	-.00130	.00014
4.968	539.360	.01930	2.99987	-.00537	-.10240	.01644	.02995	-.02402	-.00118	.00042
	GRADIENT	.00293	.22711	.00043	-.00290	.00265	.00254	-.00215	-.00014	-.00001

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (TVK040) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2777/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.048	625.490	400.19000	.03973	.16531	.02554	442.05000	.00000	.00000	661.56000	.00000	.00000
-20.003	699.350	399.81000	.39359	.05293	-.10574	441.65000	.00000	.00000	660.97000	.00000	.00000
-19.961	798.720	399.78000	.27739	.03539	-.08208	441.42000	.00000	.00000	660.62000	.00000	.00000
-19.949	999.090	399.68000	.23205	.05591	-.07930	442.47000	.00000	.00000	662.19000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2781/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.034	475.040	400.17000	-.22571	.02225	-.17114	438.35000	.00000	.00000	655.05000	.00000	.00000
-15.061	500.000	400.21000	.33528	.08390	-.06506	438.57000	.00000	.00000	655.35000	.00000	.00000
-15.021	549.460	399.99000	.14469	.04656	-.10184	438.42000	.00000	.00000	656.13000	.00000	.00000
-14.990	599.250	400.10000	.09118	.05428	-.07037	438.43000	.00000	.00000	655.15000	.00000	.00000
-14.975	698.600	399.87000	-.06055	.05223	-.08491	438.38000	.00000	.00000	656.05000	.00000	.00000
-14.970	798.630	399.93000	-.02530	.05013	-.08338	438.07000	.00000	.00000	655.60000	.00000	.00000
-15.094	1000.000	400.34000	-.00164	.04535	-.05325	438.07000	.00000	.00000	655.60000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2785/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.517	349.970	400.13000	.00485	-.00007	-.13391	436.24000	.00000	.00000	652.87000	.00000	.00000
-10.557	399.830	400.19000	.19408	.05640	-.03700	435.91000	.00000	.00000	652.38000	.00000	.00000
-10.512	449.240	400.05000	-.29210	.01093	-.10622	436.18000	.00000	.00000	652.78000	.00000	.00000
-10.495	499.110	400.05000	-.19287	.02640	-.06956	435.92000	.00000	.00000	652.39000	.00000	.00000
-10.472	599.620	399.93000	.19167	.04228	-.04252	436.40000	.00000	.00000	653.11000	.00000	.00000
-10.477	698.630	399.93000	.11085	.03655	-.03325	436.25000	.00000	.00000	652.89000	.00000	.00000
-10.525	799.360	400.10000	.23077	.03646	-.03077	435.48000	.00000	.00000	651.74000	.00000	.00000
-10.573	999.940	400.31000	.09796	.03278	-.02295	435.69000	.00000	.00000	652.03000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK040) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2494/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.021	175.190	399.87000	.03993	.01569	-.03461	411.27000	.00000	.00000	660.40000	.00000	.00000
-4.983	199.180	400.01000	.49786	.00297	-.05783	410.51000	.00000	.00000	659.27000	.00000	.00000
-4.985	249.020	399.93000	.08377	-.00519	-.07332	410.74000	.00000	.00000	659.61000	.00000	.00000
-5.011	299.440	400.05000	.11562	.02336	-.03916	411.71000	.00000	.00000	661.05000	.00000	.00000
-4.988	399.700	400.04000	.30078	-.00415	-.05503	411.38000	.00000	.00000	660.54000	.00000	.00000
-4.983	499.830	399.92000	.09934	.03343	-.01924	410.91000	.00000	.00000	659.83000	.00000	.00000
-4.975	599.630	400.02000	.28155	.02056	-.02163	411.22000	.00000	.00000	660.33000	.00000	.00000
-5.051	699.490	400.09000	.43476	.02824	-.02047	411.21000	.00000	.00000	660.30000	.00000	.00000
-5.035	799.830	400.23000	-.02096	.02617	-.01815	411.68000	.00000	.00000	660.98000	.00000	.00000
-4.998	999.350	400.13000	.26157	.02451	-.01705	410.92000	.00000	.00000	659.87000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.067	21.277	400.01000	.28397	.01388	-.00462	414.53000	.00000	.00000	665.28000	.00000	.00000
.017	48.845	400.16000	.53347	.01314	-.00500	414.86000	.00000	.00000	665.77000	.00000	.00000
.042	98.345	400.11000	.21843	.01227	-.01334	415.12000	.00000	.00000	666.15000	.00000	.00000
.016	148.950	400.02000	.20248	-.00631	-.04539	415.05000	.00000	.00000	665.06000	.00000	.00000
-.004	199.210	400.12000	.15022	-.00974	-.05269	414.84000	.00000	.00000	665.74000	.00000	.00000
.026	299.710	400.15000	.08572	-.00230	-.04729	415.45000	.00000	.00000	666.63000	.00000	.00000
.028	399.650	400.11000	-.10203	-.00187	-.03449	415.92000	.00000	.00000	667.33000	.00000	.00000
.018	498.620	400.11000	.35226	.02025	-.00088	415.80000	.00000	.00000	667.19000	.00000	.00000
-.020	599.490	400.14000	.07341	.01675	-.00202	416.19000	.00000	.00000	667.76000	.00000	.00000
-.022	799.480	400.11000	.30411	.01742	-.00138	415.46000	.00000	.00000	666.70000	.00000	.00000
-.015	879.310	400.18000	.12228	.01662	-.00091	415.65000	.00000	.00000	666.97000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2500/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.992	-50.542	400.15000	.16547	.01395	.00311	446.35000	.00000	.00000	668.00000	.00000	.00000
5.042	13.214	400.21000	.21311	.01527	.00135	417.15000	.00000	.00000	669.20000	.00000	.00000
5.006	49.019	400.15000	.19408	.00789	-.01269	417.29000	.00000	.00000	669.41000	.00000	.00000
5.002	98.908	400.20000	.61914	-.01154	-.04395	417.42000	.00000	.00000	669.61000	.00000	.00000
5.022	198.540	400.24000	-.05209	.00413	-.01903	417.32000	.00000	.00000	669.45000	.00000	.00000
5.033	298.490	400.22000	.05492	-.01537	-.03256	417.22000	.00000	.00000	669.33000	.00000	.00000
5.009	398.850	400.21000	.49313	.01693	.00544	417.67000	.00000	.00000	669.93000	.00000	.00000
4.988	539.360	400.20000	.03358	.01495	.00473	417.43000	.00000	.00000	669.61000	.00000	.00000
	GRADIENT	30.28682	.01613	.00116	.00010	13.83911	.00000	.00000	50.64326	.00000	.00000

V41B-D9A (IA22),ORBITER(04R:1) W/ET SEPARATING (UVK040) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2777/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.048	625.490	979.76000	979.76000	86.00000	979.7600(	979.57000	87.00000	76.00000	31.03300	99.64200
-20.003	699.350	979.83000	979.83000	86.00000	979.8300(	979.57000	87.00000	76.00000	28.65500	99.64200
-19.951	788.720	979.82000	979.82000	86.00000	979.8200(	979.57000	87.00000	76.00000	19.75500	99.64200
-19.949	993.090	979.71000	979.71000	86.00000	979.7100(	979.57000	87.00000	76.00000	7.83040	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2781/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.034	475.040	982.23000	982.23000	85.00000	982.2300(	982.03999	86.00000	77.00000	21.15600	99.76800
-15.061	500.000	982.20000	982.20000	85.00000	982.2000(	982.03999	86.00000	77.00000	20.87100	99.76900
-15.021	549.460	982.36000	982.36000	85.00000	982.3600(	982.03999	86.00000	77.00000	19.72500	99.76800
-14.990	599.250	982.39000	982.39000	85.00000	982.3900(	982.03999	86.00000	77.00000	16.91200	99.76800
-14.975	698.600	982.23000	982.23000	85.00000	982.2300(	982.03999	86.00000	77.00000	12.90700	99.76800
-14.970	799.630	982.05000	982.05000	85.00000	982.0500(	982.03999	86.00000	77.00000	9.30230	99.76800
-15.094	1000.000	982.05000	982.05000	85.00000	982.0500(	982.03999	86.00000	77.00000	6.65130	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2795/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.517	349.970	981.33000	981.33000	84.00000	981.3300(	981.12000	21.00000	77.00000	20.86200	99.64200
-10.557	399.830	981.08000	981.08000	84.00000	981.0800(	981.12000	21.00000	77.00000	21.34900	99.64200
-10.512	449.240	981.20000	981.20000	84.00000	981.2000(	981.12000	21.00000	77.00000	20.06500	99.64200
-10.495	499.110	981.09000	981.09000	84.00000	981.0900(	981.12000	21.00000	77.00000	17.86000	99.64200
-10.472	599.620	981.21000	981.21000	84.00000	981.2100(	981.12000	21.00000	77.00000	14.42100	99.64200
-10.477	693.630	981.37000	981.37000	84.00000	981.3700(	981.12000	21.00000	77.00000	12.03500	99.64200
-10.525	799.360	981.08000	981.08000	84.00000	981.0800(	981.12000	21.00000	77.00000	10.37000	99.64200
-10.573	999.940	981.03000	981.03000	84.00000	981.0300(	981.12000	21.00000	77.00000	8.64290	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04R(1) W/ET SEPARATING (UVK040) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2494/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.021	175.190	976.09000	976.09000	79.00000	976.0900(	975.8800(	64.00000	74.00000	3.89110	99.76800
-4.983	199.180	975.87000	975.87000	79.00000	975.8700(	975.88000	64.00000	74.00000	3.20650	99.76800
-4.985	249.020	975.89000	975.89000	79.00000	975.8900(	975.88000	64.00000	74.00000	4.19390	99.76800
-5.011	299.440	976.08000	976.08000	79.00000	976.0800(	975.88000	64.00000	74.00000	6.32650	99.76800
-4.968	398.700	975.80000	975.80000	79.00000	975.8000(	975.88000	64.00000	74.00000	7.93370	99.76800
-4.983	498.830	975.77000	975.77000	79.00000	975.7700(	975.88000	64.00000	74.00000	8.20130	99.76800
-4.975	598.650	975.58000	975.58000	79.00000	975.5800(	975.88000	64.00000	74.00000	7.09020	99.76800
-5.051	699.490	975.45000	975.45000	79.00000	975.4500(	975.88000	64.00000	74.00000	5.59520	99.76800
-5.035	799.830	975.48000	975.48000	79.00000	975.4800(	975.88000	64.00000	74.00000	4.21090	99.76800
-4.998	999.350	974.81000	974.81000	79.00000	974.8100(	975.88000	64.00000	74.00000	2.61510	99.76800
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.067	21.277	976.41000	976.41000	79.00000	976.4100(	976.20000	64.00000	74.00000	-1.98000	99.64200
.017	48.845	976.15000	976.15000	79.00000	976.1500(	976.20000	64.00000	74.00000	-2.60170	99.64200
.042	98.345	976.22000	976.22000	79.00000	976.2200(	976.20000	64.00000	74.00000	-3.60760	99.64200
.016	148.960	976.08000	976.08000	79.00000	976.0800(	976.20000	64.00000	74.00000	-3.86110	99.64200
-.004	199.210	977.09000	977.09000	79.00000	977.0900(	976.20000	64.00000	74.00000	-2.31210	99.64200
.026	298.710	977.45000	977.45000	79.00000	977.4500(	976.20000	64.00000	74.00000	1.00890	99.64200
.028	398.650	977.50000	977.50000	79.00000	977.5000(	976.20000	64.00000	74.00000	2.53780	99.64200
.018	498.620	977.24000	977.24000	79.00000	977.2400(	976.20000	64.00000	74.00000	3.07530	99.64200
-.020	599.490	977.09000	977.09000	79.00000	977.0900(	976.20000	64.00000	74.00000	2.39570	99.64200
-.022	799.460	977.02000	977.02000	79.00000	977.0200(	976.20000	64.00000	74.00000	2.09210	99.64200
-.015	879.310	976.93000	976.93000	79.00000	976.9300(	976.20000	64.00000	74.00000	1.37640	99.64200
	GRADIENT	.00000	.00000	.00000	.0000(	.00000	.00000	.00000	.00000	.00000

RUN NO. 2500/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.992	-50.542	976.46000	976.46000	79.00000	976.4600(	976.25000	64.00000	74.00000	-4.30140	99.76800
5.042	13.214	976.24000	976.24000	79.00000	976.2400(	976.25000	64.00000	74.00000	-5.04330	99.76800
5.006	49.019	976.54000	976.54000	79.00000	976.5400(	976.25000	64.00000	74.00000	-5.94490	99.76800
5.002	98.908	975.84000	975.84000	79.00000	975.8400(	976.25000	64.00000	74.00000	-5.83240	99.76800
5.022	198.540	976.10000	976.10000	79.00000	976.1000(	976.25000	64.00000	74.00000	-4.36870	99.76800
5.033	298.490	975.98000	975.98000	79.00000	975.9800(	976.25000	64.00000	74.00000	-2.64940	99.76800
5.009	398.850	975.88000	975.88000	79.00000	975.8800(	976.25000	64.00000	74.00000	-.90975	99.76800
4.968	539.360	975.85000	975.85000	79.00000	975.8500(	976.25000	64.00000	74.00000	-.06702	99.76800
	GRADIENT	73.87922	73.87922	5.97851	73.87922	73.87998	4.84335	5.60012	-.38166	7.55017

V41B-D9A (IA22),ET SEPARATING FROM C9B (04RC1) (AVK040) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1280.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2777/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.048	625.490	400.19000	.03973	-20.05700	3.00030	-.42538	-.03913	-.03677	-.00879	.00077	.11194
-20.003	699.350	399.81000	.39358	-19.99700	2.99900	-.43128	-.02737	-.03891	-.00737	.00074	.11949
-19.961	768.720	399.76000	.27739	-19.94700	2.99890	-.45784	.00321	-.03665	-.00587	.00090	.13717
-19.949	889.090	399.66000	.23205	-19.93000	3.00700	-.45484	.03077	-.03410	-.01020	.00089	.16897
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2781/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.034	475.040	400.17000	-.22571	-15.03700	2.99740	-.35955	-.01095	-.03537	-.00978	.00087	.11601
-15.061	500.000	400.21000	.33628	-15.06800	2.99000	-.31417	-.03525	-.03819	-.00929	.00057	.10305
-15.021	549.460	399.93000	.14468	-15.01500	2.99030	-.30446	-.03302	-.03709	-.00842	.00054	.10528
-14.990	509.230	400.10000	.00118	-14.97000	2.99030	-.31405	-.02505	-.03319	-.00759	.00057	.11037
-14.975	693.600	399.97000	-.00055	-14.95000	2.99030	-.33831	.00259	-.03616	-.00736	.00053	.12509
-14.970	798.630	399.80000	-.02520	-14.95100	2.99070	-.34032	.02448	-.03436	-.00813	.00051	.14264
-15.094	1000.000	400.34000	-.00164	-15.07500	2.99340	-.25549	-.02854	-.03391	-.00830	.00028	.10680
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2785/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.517	349.970	400.13000	.00486	-10.50000	2.99000	-.29317	.00118	-.03751	-.01003	.00049	.12244
-10.557	399.830	400.19000	.19408	-10.54000	2.99010	-.23210	-.02081	-.03650	-.00934	.00039	.09823
-10.512	449.240	400.08000	-.29210	-10.50200	2.99230	-.21644	-.02832	-.03841	-.00854	.00041	.09351
-10.495	499.110	400.05000	-.19537	-10.48100	2.99310	-.22826	-.01946	-.03774	-.00784	.00041	.10212
-10.472	598.620	399.93000	.19167	-10.46500	2.99310	-.23039	.00181	-.03510	-.00768	.00032	.11366
-10.477	698.630	399.83000	.11055	-10.46300	3.00030	-.24331	.01813	-.03218	-.00842	.00031	.12652
-10.525	799.330	400.10000	.23077	-10.50600	3.00230	-.20524	.00608	-.02937	-.00878	.00020	.12346
-10.573	899.540	400.31000	.09796	-10.53400	2.99080	-.14164	-.03048	-.03149	-.00940	.00019	.10091
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATIN) FROM ORB (O4RC1) (AVK040) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2494/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.021	175.190	399.87000	.03993	-4.98980	2.99300	-.18299	-.01656	-.04383	-.00663	.00035	.10462
-4.983	199.180	400.01000	.49786	-4.95510	3.00590	-.18509	-.00950	-.04334	-.00752	.00029	.10743
-4.985	249.020	399.98000	.08377	-4.95440	3.00230	-.16686	-.00686	-.03776	-.00993	.00037	.10350
-5.011	299.440	400.05000	.11562	-4.99280	2.99730	-.13494	-.02030	-.03780	-.01007	.00050	.09151
-4.968	398.700	400.04000	.30078	-4.95290	2.99500	-.13651	-.00612	-.03886	-.00775	.00042	.09592
-4.963	498.830	399.93000	.09054	-4.94730	2.99320	-.14181	.00990	-.03370	-.00773	.00036	.10370
-4.975	598.850	400.00000	.26156	-4.95330	3.00460	-.13935	.02055	-.02798	-.01010	.00043	.11158
-5.051	699.490	400.05000	.43476	-5.03250	3.00250	-.10016	.00506	-.02630	-.01089	.00018	.10563
-5.035	799.830	400.23000	-.02096	-5.01600	2.99480	-.05400	-.01539	-.02745	-.01023	.00024	.09006
-4.998	999.350	400.13000	.26157	-4.97990	2.99030	-.05371	-.01512	-.02653	-.01016	.00025	.09269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2497/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.067	21.277	400.01000	.28397	-.01827	3.00219	-.10976	-.03420	-.03051	-.00911	.00058	.10108
.017	48.845	400.16000	.53347	.05083	2.99700	-.10690	-.02291	-.03765	-.00565	.00048	.09991
.042	98.345	400.11000	.21843	.07612	3.00400	-.10469	-.00810	-.03319	-.00759	.00017	.10118
.016	148.960	400.02000	.20248	.04253	3.00170	-.09144	-.00339	-.03659	-.00865	.00017	.09324
-.004	199.210	400.12000	.15022	.01845	3.00240	-.07118	-.00744	-.03307	-.01078	.00034	.09129
.026	298.710	400.16000	.05672	.04446	2.99100	-.06877	.00533	-.03477	-.00833	.00031	.09353
.028	398.650	400.11000	-.18203	.04367	2.99390	-.07036	.01972	-.03013	-.00872	.00025	.10108
.018	498.820	400.11000	.35226	.03594	3.00620	-.06350	.02303	-.02384	-.01143	.00023	.10708
-.020	599.490	400.14000	.07341	-.00109	2.99760	-.02859	.01331	-.02442	-.01143	.00014	.09548
-.022	799.480	400.11000	.30411	-.00274	2.99300	-.00574	.00108	-.02662	-.01038	.00018	.08774
-.015	879.310	400.18000	.12228	.00427	2.99910	-.00558	.00119	-.02668	-.01035	.00019	.08957
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2500/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.992	-50.542	400.15000	.18547	5.03690	3.00190	-.04739	-.01825	-.03443	-.00707	.00026	.10417
5.042	13.214	400.21000	.21311	5.08080	3.00670	-.04143	.00081	-.02909	-.01030	.00011	.09640
5.006	49.019	400.15000	.19408	5.03040	3.00150	-.02832	.00299	-.02855	-.01157	.00015	.09264
5.002	98.909	400.20000	.61914	5.02720	3.00090	-.01272	.00443	-.03122	-.01015	.00027	.09089
5.022	198.540	400.24000	-.03809	5.04400	2.99150	-.00500	.01655	-.03211	-.00895	.00019	.09348
5.033	298.490	400.22000	.09492	5.04920	2.99300	-.00707	.03195	-.02770	-.01017	.00013	.09850
5.009	398.650	400.21000	.49313	5.02620	3.00280	.00354	.03730	-.02278	-.01233	.00005	.10056
4.968	539.360	400.20000	.03368	4.99710	2.99450	.04447	.02026	-.02616	-.01116	.00015	.08700
	GRADIENT	30.28582	.01613	.38449	.22754	-.00314	.00006	-.00220	-.00078	.00001	.00730

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK041) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2778/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.021	625.190	600.18000	.31271	.00439	.28586	-.01233	-.02552	-.00082	.00121	-.03009	.23338
-20.048	700.350	600.32000	.14433	-.00030	.25448	-.00137	-.02705	-.00199	.00096	-.02356	.23277
-20.018	799.570	599.97000	.49259	.00450	.22261	.00530	-.02738	-.00184	.00049	-.02117	.23347
-20.006	999.750	600.09000	.04189	-.00618	.22264	.00526	-.02739	-.00185	.00049	-.02122	.23332
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2782/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-15.006	474.780	600.20000	.19501	.00001	.30758	-.01475	-.02647	-.00165	.00126	-.02562	.23329
-15.011	499.730	600.28000	-.13958	-.00028	.28010	-.01099	-.02789	-.00185	.00142	-.02614	.23346
-15.019	549.840	600.28000	-.02783	-.00673	.25668	-.00310	-.02746	-.00194	.00083	-.02322	.23390
-15.060	600.510	600.44000	.07892	.00034	.27449	.00193	-.02733	-.00186	.00010	-.02154	.23351
-15.065	700.510	600.44000	-.28752	-.00789	.22072	.00529	-.02755	-.00188	.00051	-.01989	.23378
-15.001	799.880	600.24000	-.00485	-.00517	.22067	.00530	-.02756	-.00190	.00052	-.01989	.23390
-14.980	998.900	600.02000	.12412	-.00094	.22072	.00533	-.02762	-.00189	.00052	-.02009	.23355
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2786/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.497	349.760	600.14000	-.08457	-.00422	.33223	-.01522	-.02618	-.00222	.00073	-.01608	.23368
-10.503	399.770	600.16000	-.11457	-.00575	.29357	-.01107	-.02641	-.00209	.00127	-.02059	.23401
-10.520	449.740	600.17000	.16503	-.00019	.24915	-.00346	-.02781	-.00184	.00037	-.02127	.23371
-10.554	500.220	600.290	.24026	.00109	.23253	.00141	-.02727	-.00182	-.00034	-.02027	.23406
-10.556	600.350	600.230	-.04670	-.00347	.21953	.00503	-.02763	-.00186	.00052	-.01843	.23368
-10.539	700.110	600.33000	-.02585	-.00587	.21873	.00532	-.02779	-.00188	.00052	-.01821	.23380
-10.439	799.680	600.03000	.04650	-.00485	.21832	.00530	-.02762	-.00187	.00052	-.01837	.23391
-10.511	999.290	600.12000	-.12577	-.00551	.21894	.00530	-.02772	-.00191	.00052	-.01842	.23400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORRITER(O1RC1) W/ET SEPARATING (SVK041) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2778/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.021	625.190	.00600	3.00021	.00439	-.04336	-.00138	.01385	-.01814	-.00176	.00126
-20.048	700.350	.01400	3.00170	-.00030	-.07357	.00858	.02038	-.01957	-.00293	.00101
-20.018	799.570	.01900	3.00160	.00460	-.11039	.01624	.02775	-.02000	-.00278	.00054
-20.006	999.750	.01900	3.00168	-.00618	-.11080	.01622	.02276	-.02000	-.00279	.00054
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2782/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.006	474.780	.00500	3.00119	.00001	-.02113	-.00388	.01799	-.01915	-.00258	.00130
-15.011	499.730	.00700	3.00148	-.00028	-.05170	-.00012	.01749	-.02056	-.00278	.00146
-15.019	549.840	.01300	3.00163	-.00373	-.07418	.00777	.02042	-.02013	-.00288	.00087
-15.060	600.510	.01700	3.00165	.00034	-.09154	.01282	.02214	-.02000	-.00279	.00015
-15.065	700.510	.01900	3.00169	-.00739	-.11123	.01616	.02376	-.02021	-.00281	.00055
-15.001	799.630	.01900	3.00167	-.00517	-.11146	.01618	.02378	-.02022	-.00293	.00057
-14.980	998.900	.01900	3.00174	-.00084	-.11154	.01622	.02359	-.02028	-.00282	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2786/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.497	349.760	.00700	3.00182	-.00422	.03127	-.00441	.02730	-.01889	-.00315	.00078
-10.503	399.770	.00900	3.00175	-.00675	-.03128	-.00027	.02277	-.01912	-.00302	.00131
-10.520	449.740	.01200	3.00159	-.00019	-.07134	.00736	.02214	-.02051	-.00277	.00041
-10.554	500.280	.01600	3.00161	.00109	-.09103	.01222	.02312	-.01998	-.00275	-.00030
-10.556	600.360	.01900	3.00167	-.00347	-.10159	.01598	.02499	-.02034	-.00279	.00056
-10.539	700.110	.01900	3.00167	-.00537	-.11132	.01613	.02519	-.02050	-.00281	.00056
-10.439	799.630	.01900	3.00165	-.00485	-.11145	.01612	.02506	-.02032	-.00279	.00057
-10.511	999.290	.01900	3.00171	-.00551	-.11169	.01613	.02506	-.02041	-.00284	.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O)RC1) W/ET SEPARATING (TVK041) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLOR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2778/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.021	625.190	600.18000	.31271	.03708	-.05797	441.09000	.00000	.00000	660.12000	.00000	.00000
-20.048	700.350	600.32000	.14433	.04066	-.05504	440.99000	.00000	.00000	659.98000	.00000	.00000
-20.018	799.570	599.97000	.49259	.04230	-.05383	440.79000	.00000	.00000	659.69000	.00000	.00000
-20.006	899.750	600.09000	.04189	.04778	-.06392	441.38000	.00000	.00000	660.56000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2782/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.008	474.780	600.20000	.19501	.06213	.00803	437.76000	.00000	.00000	655.15000	.00000	.00000
-15.011	499.730	600.20000	-.13958	.03378	-.02711	437.89000	.00000	.00000	655.34000	.00000	.00000
-15.019	549.840	600.28000	-.02783	.03172	-.02832	437.98000	.00000	.00000	655.45000	.00000	.00000
-15.060	800.510	600.44000	.07892	.03333	-.02348	439.32000	.00000	.00000	655.99000	.00000	.00000
-15.065	700.510	600.44000	-.28752	.03149	-.02469	438.08000	.00000	.00000	655.62000	.00000	.00000
-15.001	799.880	600.24000	-.00485	.03313	-.02827	438.33000	.00000	.00000	655.99000	.00000	.00000
-14.980	898.900	600.02000	.12412	.03704	-.03588	438.49000	.00000	.00000	656.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2786/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.497	349.760	600.14000	-.08457	-.00884	-.12658	435.45000	.00000	.00000	651.68000	.00000	.00000
-10.503	399.770	600.16000	-.11457	.03323	-.02035	435.30000	.00000	.00000	651.47000	.00000	.00000
-10.520	449.740	600.17000	.16503	.02249	-.01838	435.62000	.00000	.00000	651.95000	.00000	.00000
-10.554	500.280	600.28000	.24085	.02533	-.00581	435.51000	.00000	.00000	651.78000	.00000	.00000
-10.558	600.360	600.29000	-.04670	.02341	-.00614	435.78000	.00000	.00000	652.19000	.00000	.00000
-10.539	700.110	600.36000	-.02595	.02426	-.00786	435.57000	.00000	.00000	651.86000	.00000	.00000
-10.438	798.680	600.03000	.04650	.02511	-.00872	435.84000	.00000	.00000	652.27000	.00000	.00000
-10.511	999.290	600.12000	-.12577	.02768	-.01366	436.34000	.00000	.00000	653.01000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (UVK041) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2778/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.021	625.190	980.06000	980.06000	86.00000	980.06000	979.53999	87.00000	76.00000	-.68900	99.76800
-20.048	700.350	979.85000	979.85000	86.00000	979.85000	979.53999	87.00000	76.00000	.46253	99.76800
-20.013	799.570	979.90000	979.90000	86.00000	979.90000	979.53999	87.00000	76.00000	2.37980	99.76800
-20.006	999.750	979.74000	979.74000	86.00000	979.74000	979.53999	87.00000	76.00000	4.60080	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2782/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.006	474.760	981.85000	981.85000	85.00000	981.85000	981.84000	86.00000	77.00000	.93062	99.76800
-15.011	499.730	982.14000	982.14000	85.00000	982.14000	981.84000	86.00000	77.00000	.07659	99.76800
-15.019	549.840	982.30000	982.30000	85.00000	982.30000	981.84000	86.00000	77.00000	.99867	99.76800
-15.060	600.510	982.14000	982.14000	85.00000	982.14000	981.84000	86.00000	77.00000	2.16410	99.76800
-15.065	700.510	982.03000	982.03000	85.00000	982.03000	981.84000	86.00000	77.00000	3.42000	99.76800
-15.001	799.830	982.15000	982.15000	85.00000	982.15000	981.84000	86.00000	77.00000	4.18700	99.76800
-14.980	998.900	982.03000	982.03000	85.00000	982.03000	981.84000	86.00000	77.00000	4.99950	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2786/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.497	349.760	980.51000	980.51000	83.00000	980.51000	980.87000	21.00000	77.00000	7.59510	99.76800
-10.503	399.770	980.67000	980.67000	83.00000	980.67000	980.87000	21.00000	77.00000	2.92940	99.76800
-10.520	449.740	980.43000	980.43000	83.00000	980.43000	980.87000	21.00000	77.00000	1.65250	99.76800
-10.554	500.260	980.63000	980.63000	83.00000	980.63000	980.87000	21.00000	77.00000	2.85300	99.76800
-10.556	600.360	980.79000	980.79000	83.00000	980.79000	980.87000	21.00000	77.00000	3.90050	99.76800
-10.539	700.110	980.78000	980.78000	83.00000	980.78000	980.87000	21.00000	77.00000	4.75890	99.76800
-10.439	799.690	980.92000	980.92000	83.00000	980.92000	980.87000	21.00000	77.00000	5.73910	99.76800
-10.511	899.290	981.07000	981.07000	83.00000	981.07000	980.87000	21.00000	77.00000	6.71030	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK041) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2778/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.021	625.190	600.18000	.31271	-20.01500	3.00460	-.43825	-.03846	-.03691	-.00924	.00080	.11738
-20.048	700.350	600.32000	.14433	-20.03400	3.00140	-.43973	-.03136	-.03831	-.00759	.00074	.12209
-20.018	799.570	599.97600	.49359	-19.98200	3.00610	-.44458	-.01453	-.03866	-.00585	.00089	.12785
-20.006	999.750	600.09000	.04169	-19.98700	2.99650	-.48277	.03306	-.03517	-.00836	.00106	.16649
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2782/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.006	474.780	600.20000	.19501	-15.00100	3.00120	-.35504	-.02932	-.03561	-.00992	.00040	.11368
-15.011	499.730	600.20000	-.13938	-15.00400	3.00120	-.33397	-.03533	-.03654	-.00930	.00043	.10585
-15.019	549.640	600.20000	-.02783	-15.00300	2.99150	-.31635	-.03818	-.04078	-.00702	.00048	.10956
-15.060	600.510	600.44000	.07292	-15.04300	3.00200	-.31127	-.03512	-.03620	-.00855	.00055	.10629
-15.065	700.510	600.44000	-.28752	-15.04600	2.99370	-.32727	-.01255	-.03721	-.00742	.00058	.11643
-15.001	799.890	600.24000	-.00485	-14.99200	2.99350	-.34139	.01166	-.03566	-.00782	.00054	.13228
-14.980	998.900	600.02000	.12412	-14.98100	3.00090	-.26976	-.00899	-.03416	-.00878	.00029	.12815
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2766/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.497	349.760	600.14000	-.09457	-10.49000	2.99760	-.30622	-.01261	-.04376	-.00851	.00048	.12310
-10.503	399.770	600.16000	-.11457	-10.49500	2.99500	-.26510	-.02623	-.04083	-.00843	.00032	.10792
-10.520	449.740	600.17000	.16503	-10.50800	3.00140	-.23029	-.03421	-.03925	-.00912	.00049	.09995
-10.554	500.280	600.29000	.24063	-10.53800	3.00270	-.22539	-.03059	-.03767	-.00824	.00048	.10011
-10.556	600.360	600.29000	-.04670	-10.53700	2.99920	-.23320	-.01108	-.03563	-.00771	.00040	.10578
-10.539	700.110	600.38000	-.02595	-10.52000	2.99530	-.24167	.00849	-.03317	-.00820	.00029	.11908
-10.439	783.680	600.03000	.04950	-10.42000	2.99330	-.23207	.01726	-.03069	-.00928	.00035	.12790
-10.511	999.290	600.12000	-.12577	-10.49200	2.99320	-.14001	-.03077	-.03080	-.00945	.00018	.10091
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2835/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.007	624.930	.03002	-.17599	2.99240	.59303	-.01709	-.11442	.02578	-.00386	-.00270	.27398
-19.954	698.370	-.19932	.47584	3.00460	.53844	-.03413	-.10877	.02540	-.00417	-.01111	.27577
-19.950	799.410	-.22429	-.59282	2.99390	.44261	-.03169	-.11337	.02490	-.00162	-.01978	.27514
-20.006	999.500	-.00344	.61825	3.00670	.22227	.00216	-.10944	.02477	-.00509	-.01525	.27535
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2839/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-15.004	474.500	.02176	.28036	2.99300	.51364	-.00933	-.11944	.02636	-.00223	-.00775	.27588
-15.019	499.410	.07157	-.13707	2.99760	.48190	-.01515	-.11798	.02599	-.00240	-.01009	.27570
-14.977	548.880	-.04753	-.22398	2.99250	.46201	-.02718	-.11343	.02538	-.00301	-.01423	.27598
-14.982	599.000	-.00331	-.81411	2.98950	.41631	-.02925	-.10970	.02427	-.00206	-.02357	.27583
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2843/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.512	349.510	.03080	-.11624	2.99470	.43200	.00084	-.11912	.02607	-.00328	-.01096	.27536
-10.506	399.200	.01995	-.04234	2.99390	.38085	-.00530	-.12023	.02638	-.00249	-.01490	.27538
-10.485	448.990	-.04700	-.20034	2.99390	.35078	-.01025	-.11890	.02644	-.00284	-.01896	.27507
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC2) W/ET SEPARATING (SVK042) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2835/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.007	624.980	.01600	-.02780	2.99240	.2697	-.00734	.02790	-.02994	.00057	.00133
-19.954	698.370	-.00200	-.02770	3.00480	.2147	-.02436	.01959	-.02400	.00010	.00103
-19.950	798.410	-.00400	-.02720	2.98990	.1181	-.02212	.01093	-.02858	-.00040	.00359
-20.006	899.500	.01700	-.02660	3.00670	-.1032	.01196	.01554	-.02443	-.00059	.00013
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2839/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.004	474.500	.02000	-.02820	2.99300	.1858	.00037	.02335	-.03357	.00073	.00304
-15.019	499.410	.01300	-.02790	2.99760	.1542	-.00527	.02095	-.03229	.00041	.00286
-14.977	548.880	.00100	-.02750	2.99250	.1344	-.01732	.01677	-.02783	-.00017	.00225
-14.982	599.000	-.00300	-.02640	2.98650	.0838	-.01938	.00744	-.02407	-.00128	.00319
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2843/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.512	349.510	.02500	-.02750	2.99470	.1008	.01063	.02040	-.03253	.00024	.00205
-10.506	399.200	.01700	-.02300	2.99690	.0498	.00468	.01643	-.03371	.00056	.00282
-10.485	448.990	.01100	-.02810	2.99390	.0194	-.00026	.01241	-.03230	.00060	.00248
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04R32) W/ET SEPARATING (TVK042) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2835/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.007	624.980	.03802	-.17599	-.01782	-.14954	434.55000	.00000	.00000	635.37000	210.61000	.00000
-19.954	698.370	-.19962	.47584	-.09844	-.27811	426.01000	.00000	.00000	637.57000	211.34000	.00000
-19.950	798.410	-.22429	-.56262	.05075	-.08981	426.11000	.00000	.00000	637.71000	211.39000	.00000
-20.006	898.500	-.00344	.61825	.04235	-.04894	427.22000	.00000	.00000	639.37000	211.94000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2839/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.004	474.500	.02176	.28036	-.09275	-.31705	431.52000	.00000	.00000	645.81000	214.07000	.00000
-15.019	499.410	.07157	-.13707	-.07617	-.31018	430.64000	.00000	.00000	644.49000	213.63000	.00000
-14.977	548.880	-.04753	-.22396	.09008	-.07180	430.19000	.00000	.00000	643.81000	213.41000	.00000
-14.982	599.000	-.00361	-.81411	.25499	.16861	430.30000	.00000	.00000	643.99000	213.47000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2843/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.512	349.510	.03080	-.11624	-.10412	-.37449	435.14000	.00000	.00000	651.22000	215.87000	.00000
-10.506	393.200	.01986	-.04234	.12788	-.02891	434.81000	.00000	.00000	650.73000	215.70000	.00000
-10.485	448.990	-.04700	-.20034	.07613	-.06464	435.23000	.00000	.00000	651.36000	215.91000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ORBITER(04RC2) W/ET SEPARATING (UVK042) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2835/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.007	624.980	964.41000	964.41000	85.00000	964.41000	964.21999	86.00000	75.00000	24.89300	99.64200
-19.954	698.370	966.80000	966.80000	85.00000	966.80000	964.21999	86.00000	75.00000	28.55500	99.64200
-19.950	798.410	969.84000	969.84000	85.00000	969.84000	964.21999	86.00000	75.00000	34.62500	99.64200
-20.006	939.500	971.89000	971.89000	85.00000	971.89000	964.21999	86.00000	75.00000	30.07400	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2839/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.004	474.500	975.01000	975.01000	81.00000	975.01000	974.82000	82.00000	76.00000	27.53500	99.76800
-15.019	499.410	974.91000	974.91000	81.00000	974.91000	974.82000	82.00000	76.00000	27.17400	99.76800
-14.977	548.880	974.84000	974.84000	81.00000	974.84000	974.82000	82.00000	76.00000	25.72900	99.76800
-14.982	599.000	974.63000	974.63000	81.00000	974.63000	974.82000	82.00000	76.00000	25.97700	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2843/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.512	349.510	975.01000	975.01000	83.00000	975.01000	974.82999	84.00000	76.00000	25.60600	99.76800
-10.506	399.200	974.75000	974.75000	83.00000	974.75000	974.82999	84.00000	76.00000	25.49200	99.76800
-10.485	448.990	974.25000	974.25000	83.00000	974.25000	974.82999	84.00000	76.00000	24.98300	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC? (AVK042) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2835/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT		CLM	CY	CYN	CBL	CA
-20.007	624.980	.03802	-.17539	-19.99100	2.98460	-	-.00755	-.03971	-.00727	.00063	.11731
-19.984	698.370	-.19902	.47564	-19.98300	2.97710	-.	.00948	-.03830	-.00757	.00062	.13980
-19.950	799.410	-.22429	-.53262	-19.98400	2.98270	-	.03899	-.03588	-.00817	.00087	.16868
-20.006	899.500	-.00344	.61825	-19.98300	2.98010	-.33380	-.03765	-.03532	-.00650	.00038	.12016
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2839/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.004	474.500	.02176	.28036	-14.98400	2.97080	-.33116	-.00662	-.04094	-.00644	.00046	.10802
-15.019	499.410	.07157	-.13707	-15.00800	2.98870	-.31048	-.01539	-.03890	-.00757	.00047	.10897
-14.977	548.890	-.04753	-.22395	-14.97600	2.98600	-.31980	-.00485	-.03776	-.00760	.00041	.11808
-14.982	599.000	-.00351	-.81411	-14.98500	2.98310	-.33709	.00838	-.03767	-.00752	.00042	.12831
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2843/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.512	349.510	.03080	-.11624	-10.48700	2.98720	-.24736	-.00351	-.03638	-.00840	.00028	.10470
-10.506	399.200	.01995	-.04234	-10.48900	2.98790	-.22638	-.01015	-.03672	-.00816	.00029	.10107
-10.485	448.990	-.04700	-.20034	-10.47400	2.98690	-.23290	-.00079	-.03616	-.00795	.00025	.10894
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER( )4RC2) W/ET SEPARATING (RVK043) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2836/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-20.040	625.680	200.20000	-.18156	2.99300	.52774	-.04354	-.11234	.02481	-.00171	-.01648	.27461
-20.075	700.750	200.42000	.09655	2.99320	.40123	-.03769	-.11264	.02613	-.00171	-.02861	.27502
-19.944	799.270	200.10000	.09547	2.99960	.35060	-.02741	-.10674	.02605	-.00515	-.02815	.27497
-19.969	999.060	199.91000	-.27347	2.99300	.21658	.00371	-.10974	.02482	-.00507	-.01441	.27421
-20.007	999.460	199.93000	-.62769	2.98750	.21459	.00353	-.10883	.02460	-.00501	-.01502	.27605
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2840/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-14.978	474.370	200.03000	.09031	2.99390	.49456	-.03340	-.11474	.02532	-.00360	-.02022	.27580
-15.024	499.990	200.06000	.03327	2.99750	.42915	-.02744	-.11184	.02485	-.00418	-.01970	.27578
-15.043	550.090	200.18000	.12535	2.99940	.35976	-.02538	-.11065	.02582	-.00195	-.02557	.27611
-15.055	600.240	200.33000	-.19806	2.99460	.31159	-.02079	-.11105	.02520	-.00353	-.02601	.27572
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2844/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-10.482	349.470	199.98000	.38696	3.00550	.41130	-.01336	-.12073	.02635	-.00336	-.01965	.27561
-10.528	399.900	200.14000	.17900	3.00070	.34846	-.00872	-.11747	.02640	-.00435	-.01668	.27561
-10.541	450.220	200.14000	-.20772	2.99340	.31632	-.00903	-.11212	.02536	-.00585	-.01704	.27506
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2836/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.040	625.690	-.01100	-.02720	2.99500	.21271	-.03574	.01429	-.02739	-.00053	.00351
-20.075	700.750	-.01200	-.02870	2.99590	.01571	-.02788	.00220	-.02756	.00075	.00351
-19.944	799.270	-.00500	-.02850	2.99550	.01463	-.01759	.00271	-.02155	.00063	.00007
-19.969	999.060	.01800	-.02370	2.99500	-.11874	.01351	.01640	-.02469	-.00056	.00015
-20.007	999.460	.01800	-.02670	2.99750	-.11816	.01336	.01553	-.02448	-.00056	.00017
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2840/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.978	474.370	-.00300	-.02740	2.99690	.16600	-.02350	.01089	-.02887	-.00030	.00168
-15.024	499.990	-.00100	-.02690	2.99750	.11098	-.01755	.01137	-.02607	-.00075	.00109
-15.043	550.090	-.00300	-.02800	2.99540	.01167	-.01549	.00549	-.02491	.00024	.00332
-15.055	600.240	.00000	-.02720	2.99460	-.01169	-.01090	.00507	-.02526	-.00040	.00174
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2844/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.482	349.470	.01100	-.02790	3.00550	.07948	-.00336	.01176	-.03401	.00047	.00196
-10.528	399.900	.01300	-.02300	3.00070	.01689	.00127	.01471	-.03081	.00054	.00097
-10.541	450.220	.01100	-.02700	2.99340	-.01221	.00094	.01429	-.02551	-.00045	-.00054
	GRADIENT	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(4RC2) W/ET SEPARATING (TVK043) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DSETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UNBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2836/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.040	625.690	200.20000	-.18156	.01530	-.15089	426.80000	.00000	.00000	638.87000	211.77000	.00000
-20.075	700.750	200.42000	.09335	.11393	.03548	427.55000	.00000	.00000	639.83000	212.09000	.00000
-19.944	789.270	200.10000	.03347	.02735	-.08332	428.11000	.00000	.00000	640.70000	212.33000	.00000
-19.939	903.060	199.91000	-.27347	.04722	-.04030	427.40000	.00000	.00000	639.64000	212.03000	.00000
-20.007	989.460	199.92000	-.62769	.04359	-.04701	423.80000	.00000	.00000	634.35000	210.29000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2840/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.978	474.370	200.03000	.08031	.18360	.11124	431.51000	.00000	.00000	645.80000	214.07000	.00000
-15.024	499.990	200.05000	.03327	.02219	-.14994	431.00000	.00000	.00000	645.03000	213.81000	.00000
-15.043	550.050	200.10000	.12535	.10035	.01106	430.91000	.00000	.00000	644.89000	213.77000	.00000
-15.055	600.240	200.33000	-.19206	.02650	-.12919	431.16000	.00000	.00000	645.27000	213.89000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2844/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.482	349.470	199.98000	.32056	.01746	-.10947	435.80000	.00000	.00000	652.21000	216.20000	.00000
-10.528	399.900	200.14000	.17900	.01421	-.10536	435.40000	.00000	.00000	651.73000	216.04000	.00000
-10.541	450.220	200.14000	-.20772	.02793	-.09537	434.76000	.00000	.00000	650.65000	215.68000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2836/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.040	625.690	972.54000	972.54000	84.00000	972.54000	972.10999	85.00000	75.00000	23.03400	99.76800
-20.075	700.750	972.12000	972.12000	84.00000	972.12000	972.10999	85.00000	75.00000	17.19900	99.76800
-19.944	799.270	972.49000	972.49000	84.00000	972.49000	972.10999	85.00000	75.00000	15.44700	99.76800
-19.969	999.060	972.30000	972.30000	84.00000	972.30000	972.10999	85.00000	75.00000	19.96300	99.76800
-20.007	993.460	976.02000	976.02000	82.00000	976.02000	975.82000	83.00000	76.00000	6.02470	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2840/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.978	474.370	974.51000	974.51000	81.00000	974.51000	974.48000	82.00000	76.00000	21.44300	99.76800
-15.024	499.990	974.31000	974.31000	81.00000	974.31000	974.48000	82.00000	76.00000	21.27100	99.76800
-15.043	550.090	974.09000	974.09000	81.00000	974.09000	974.48000	82.00000	76.00000	23.13700	99.76800
-15.055	600.240	974.67000	974.67000	81.00000	974.67000	974.48000	82.00000	76.00000	23.91400	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2844/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.482	349.470	974.09000	974.09000	83.00000	974.09000	973.96999	84.00000	76.00000	18.23500	99.76800
-10.528	399.900	973.85000	973.85000	83.00000	973.85000	973.96999	84.00000	76.00000	16.96400	99.76800
-10.541	450.220	974.16000	974.16000	83.00000	974.16000	973.96999	84.00000	76.00000	16.97100	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK043) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2836/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.040	625.690	200.20000	-.18156	-20.05100	2.96780	-.42785	-.02428	-.03721	-.00801	.00066	.10928
-20.075	700.750	200.42000	.09555	-20.08700	2.97120	-.43956	-.01205	-.03906	-.00742	.00072	.12323
-19.944	799.270	200.10000	.09547	-19.94900	2.97110	-.47485	.02397	-.03795	-.00748	.00093	.15259
-19.939	899.060	199.91000	-.27347	-19.95100	2.95930	-.38206	-.01007	-.03846	-.00704	.00049	.13557
-20.007	899.460	199.92000	-.62769	-19.99300	2.96080	-.33373	-.01014	-.03891	-.00714	.00051	.13244
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2840/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.978	474.370	200.03000	.09031	-14.98100	2.95950	-.36296	-.00478	-.03725	-.00803	.00089	.11549
-15.024	499.990	200.06000	.03327	-15.02300	2.97060	-.31835	-.02404	-.03854	-.00791	.00048	.10156
-15.043	550.090	200.18000	.12835	-15.04600	2.97140	-.31412	-.02122	-.03883	-.00750	.00053	.10802
-15.055	600.240	200.33000	-.19806	-15.05300	2.96740	-.33853	-.00813	-.03339	-.00717	.00050	.11557
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2844/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.482	349.470	199.98000	.38695	-10.47100	2.97760	-.26094	-.00343	-.03607	-.00995	.00055	.11457
-10.528	399.900	200.14000	.17900	-10.51500	2.97270	-.22248	-.02255	-.03770	-.00829	.00037	.09847
-10.541	450.220	200.14000	-.20772	-10.53000	2.96940	-.22604	-.01616	-.03869	-.00795	.00037	.10241
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2837/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.048	625.510	400.27000	-.20301	2.99570	.36972	-.03714	-.11102	.02602	-.00249	-.03151	.27536
-19.999	699.350	399.92000	.01077	2.99390	.28569	-.01414	-.10911	.02534	-.00463	-.02649	.27591
-19.962	798.720	399.71000	-.35892	2.99970	.24830	-.00247	-.10928	.02472	-.00454	-.01861	.27552
-19.955	998.200	399.70000	.30365	3.00670	.21638	.00358	-.10948	.02484	-.00506	-.01565	.27560
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2841/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-15.034	474.980	400.08000	-.20107	2.99310	.39016	-.02753	-.11149	.02474	-.00231	-.02725	.27538
-15.055	500.000	400.15000	.31730	2.99780	.33419	-.01948	-.11276	.02534	-.00237	-.02220	.27572
-15.013	549.450	400.07000	-.42684	2.99110	.28004	-.01265	-.11221	.02541	-.00427	-.02261	.27590
-14.983	599.310	400.01000	.18737	2.99540	.25610	-.00598	-.11052	.02523	-.00651	-.02041	.27608
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2845/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.514	349.890	400.12000	-.19994	2.99380	.39103	-.01409	-.11615	.02625	-.00466	-.01894	.27498
-10.554	399.820	400.17000	.06037	2.99220	.32318	-.01117	-.11252	.02534	-.00489	-.01739	.27488
-10.510	449.250	400.04000	-.08404	2.99390	.28577	-.00870	-.11128	.02522	-.00390	-.01982	.27498
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC2) W/ET SEPARATING (SVK044) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2837/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.048	625.510	-.00900	-.02860	2.99670	04497	-.02335	-.00077	-.02614	.00069	.00272
-19.999	699.350	.00500	-.02820	2.99390	-.03893	-.00436	.00424	-.02427	.00053	.00058
-19.962	799.720	.01400	-.02670	2.98970	-.07702	.00733	.01220	-.02420	-.00067	.00068
-19.955	958.200	.01800	-.02630	3.00670	-.10894	.01343	.01514	-.02446	-.00053	.00016
	GRADIENT	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2841/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.034	474.980	-.00300	-.02690	2.99310	.03114	-.01762	.00399	-.02552	-.00091	.00297
-15.055	500.000	.00200	-.02730	2.99780	.00595	-.00588	.00890	-.02690	-.00028	.00290
-15.013	549.450	.00500	-.02730	2.99110	-.04857	-.00274	.00350	-.02630	-.00023	.00101
-14.983	599.310	.01100	-.02700	2.99340	-.07053	.00395	.01073	-.02456	-.00042	-.00123
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2845/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.514	349.880	.00900	-.02900	2.99380	.05018	-.00410	.01245	-.02947	.00039	.00066
-10.554	399.820	.00900	-.02690	2.99320	-.00390	-.00116	.01404	-.02573	-.00056	.00044
-10.510	449.250	.01000	-.02630	2.99390	-.04458	.00128	.01155	-.02469	-.00061	.00142
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER (O4RC2) W/ET SEPARATING (TVK044) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1099.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2837/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.048	625.510	400.27000	-.20301	.17524	.05159	426.53000	.00000	.00000	638.33000	211.59000	.00000
-19.999	699.350	399.92000	.01077	.05416	-.09279	426.35000	.00000	.00000	638.06000	211.50000	.00000
-19.962	799.720	399.71000	-.35992	.05595	-.09918	427.54000	.00000	.00000	639.65000	212.10000	.00000
-19.955	993.200	399.70000	.30365	.05824	-.08124	427.27000	.00000	.00000	639.45000	211.96000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2841/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.034	474.580	400.08000	-.20107	.02834	-.14876	432.00000	.00000	.00000	646.52000	214.31000	.00000
-15.055	500.000	400.15000	.31730	.08905	-.04727	431.47000	.00000	.00000	645.74000	214.05000	.00000
-15.013	549.450	400.07000	-.42684	.05049	-.08378	431.72000	.00000	.00000	646.10000	214.17000	.00000
-14.993	599.310	400.01000	.18737	.05616	-.05547	432.01000	.00000	.00000	646.54000	214.31000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2845/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.514	349.830	400.12000	-.19934	.00602	-.13533	435.53000	.00000	.00000	651.89000	216.09000	.00000
-10.554	399.820	400.17000	.08287	.07129	-.02451	436.15000	.00000	.00000	652.74000	216.37000	.00000
-10.510	449.250	400.04000	-.09404	.01671	-.10013	435.18000	.00000	.00000	651.28000	215.89000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (UVK044) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2837/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-20.048	626.510	975.48000	975.48000	82.00000	975.48000	975.30000	83.00000	76.00000	29.15700	99.76800
-19.999	698.350	975.55000	975.55000	82.00000	975.55000	975.30000	83.00000	76.00000	26.75200	99.76800
-19.962	752.720	975.45000	975.45000	82.00000	975.45000	975.30000	83.00000	76.00000	21.69400	99.76800
-19.955	998.200	975.31000	975.31000	82.00000	975.31000	975.30000	83.00000	76.00000	14.45600	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2841/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-15.034	474.930	974.17000	974.17000	81.00000	974.17000	973.98000	82.00000	76.00000	21.42200	99.76800
-15.055	500.000	974.42000	974.42000	81.00000	974.42000	973.98000	82.00000	76.00000	20.72200	99.76800
-15.013	549.450	974.49000	974.49000	81.00000	974.49000	973.98000	82.00000	76.00000	19.19700	99.76800
-14.983	599.310	974.20000	974.20000	81.00000	974.20000	973.98000	82.00000	76.00000	16.20200	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2845/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	P33	DLPBAL	TB1	TB2	DT	T
-10.514	349.880	974.09000	974.09000	84.00000	974.09000	973.89999	84.00000	76.00000	20.09800	99.76800
-10.554	399.820	973.91000	973.91000	84.00000	973.91000	973.89999	84.00000	76.00000	20.13300	99.76800
-10.510	449.250	973.66000	973.66000	84.00000	973.66000	973.89999	84.00000	76.00000	18.62000	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK044) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1329.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4900 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2637/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.048	625.510	400.27000	-.20301	-20.05700	2.9391	-.42268	-.03933	-.03768	-.00840	.00077	.11182
-19.999	699.350	399.92000	.01077	-19.93400	2.9857	-.43122	-.02609	-.03873	-.00599	.00073	.11924
-19.962	788.720	399.71000	-.35882	-19.94000	2.9830	-.45714	.00402	-.03533	-.00694	.00092	.13714
-19.955	958.200	399.70000	.30355	-19.93700	2.9760	-.44736	.02724	-.03443	-.00838	.00085	.16792
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2641/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.034	474.980	400.08000	-.20107	-15.03700	2.9713	-.35528	-.01311	-.03527	-.00977	.00068	.11670
-15.055	500.000	400.15000	.31730	-15.05300	2.9705	-.31349	-.03526	-.03821	-.00805	.00059	.10256
-15.013	549.450	400.07000	-.42834	-15.00000	2.9838	-.30401	-.03516	-.03709	-.00802	.00055	.10458
-14.933	599.310	400.01000	.18737	-14.97200	2.9834	-.31429	-.02391	-.03758	-.00745	.00058	.11059
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2645/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.514	349.880	400.12000	-.19994	-10.50500	2.9859	-.29188	.00016	-.03756	-.00961	.00045	.11978
-10.554	399.820	400.17000	.08887	-10.54500	2.9893	-.23191	-.02946	-.03710	-.00883	.00037	.09812
-10.510	449.250	400.04000	-.06404	-10.50000	2.9871	-.21030	-.02041	-.03810	-.00824	.00040	.09945
	GRADIENT	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER 04RC2) W/ET SEPARATING (RVK045) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DDETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2838/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DDETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-20.020	655.230	600.10000	.04084	3.00100	.20156	-.01301	-.10851	.02859	-.00551	-.02476	.27604
-20.044	700.330	600.20000	-.00824	2.99700	.21581	-.00543	-.10055	.03400	-.00535	-.01853	.27635
-20.015	750.030	600.11000	-.10051	2.99700	.21721	.00573	-.10333	.03484	-.00507	-.01574	.27662
-19.999	800.740	600.14000	-.01424	2.99700	.21701	.00373	-.10050	.03409	-.00507	-.01531	.27647
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2642/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DDETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-15.004	474.770	600.12000	.15166	2.99730	.20021	-.01479	-.11333	.03304	-.00335	-.02558	.27490
-15.008	499.730	600.00000	-.00304	2.99700	.21021	-.01103	-.11330	.03003	-.00421	-.02555	.27539
-15.017	549.630	600.19000	.15333	2.99510	.20021	-.00303	-.11070	.02921	-.00325	-.02197	.27520
-15.042	600.190	600.21000	.04848	2.99330	.25301	.00321	-.11045	.02824	-.00383	-.01937	.27494
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2646/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DDETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.497	349.750	600.07000	-.05919	2.99370	.30051	-.01503	-.11177	.02817	-.00410	-.01678	.27482
-10.505	399.789	600.22000	-.03783	2.99400	.20031	-.01107	-.11314	.03032	-.00357	-.02123	.27472
-10.526	449.930	600.20000	.02032	2.99310	.25012	-.00321	-.11105	.02583	-.00316	-.02118	.27563
	GRADIENT	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(4RC2) W/ET SEPARATING (SVK045) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DSETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2838/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.020	625.290	.00000	-.02230	3.00100	-.04207	-.00337	.00315	-.02416	.00052	-.00027
-20.044	700.380	.01800	-.02690	2.99290	-.07282	.00339	.01232	-.02439	-.00061	-.00013
-20.015	799.620	.01800	-.02690	2.99450	-.10977	.01335	.01512	-.02436	-.00049	.00016
-19.999	999.740	.01800	-.02690	2.99420	-.10870	.01357	.01522	-.02438	-.00051	.00016
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2842/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.004	474.770	.00400	-.02700	2.99730	-.03170	-.00405	.00335	-.02712	.00021	.00194
-15.008	493.760	.00700	-.02740	2.99330	-.03336	-.00182	.00377	-.02754	-.00007	.00107
-15.017	549.850	.01200	-.02690	2.99319	-.03370	.00457	.00824	-.02454	-.00050	-.00096
-15.042	600.190	.01600	-.02690	2.99330	-.03351	.01014	.01182	-.02433	-.00046	-.00054
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2846/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.497	349.750	.00700	-.02230	2.99370	-.03730	-.00335	.01467	-.02495	-.00074	.00123
-10.505	399.780	.00300	-.02720	2.99400	-.03037	-.00188	.01028	-.02317	-.00033	.00167
-10.526	449.890	.01100	-.02700	2.99310	-.07882	.00481	.01031	-.02499	-.00040	-.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC2) 4/ET SEPARATING (TVK045) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2838/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTMD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.020	625.290	600.18000	.04854	.03871	-.04055	428.92000	.00000	.00000	641.92000	212.78000	.00000
-20.044	700.380	600.38000	-.06224	.04234	-.03663	427.92000	.00000	.00000	640.42000	212.28000	.00000
-20.015	799.620	600.11000	-.18361	.04347	-.03441	428.22000	.00000	.00000	640.95000	212.46000	.00000
-19.999	999.740	600.14000	-.01424	.04793	-.04303	427.76000	.00000	.00000	640.18000	212.21000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2842/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTMD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.004	474.770	600.12000	.15166	.07320	-.01122	433.31000	.00000	.00000	648.47000	214.95000	.00000
-15.008	499.750	600.23000	-.02234	.05140	-.04219	431.93000	.00000	.00000	646.51000	214.30000	.00000
-15.017	549.850	600.19000	.15398	.05051	-.04613	432.93000	.00000	.00000	647.95000	214.78000	.00000
-15.042	600.190	600.21000	.04648	.05425	-.04559	432.81000	.00000	.00000	647.73000	214.71000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2846/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTMD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.497	349.750	600.07000	-.05919	-.00404	-.13160	436.31000	.00000	.00000	653.03000	216.46000	.00000
-10.505	399.780	600.22000	-.03783	.04743	-.03156	437.01000	.00000	.00000	654.11000	216.82000	.00000
-10.526	449.990	600.20000	.02692	.04046	-.03981	437.03000	.00000	.00000	654.04000	216.80000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) I/ET SEPARATING (UVK045) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2838/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.020	625.290	975.29000	975.29000	81.00000	975.29000	975.28000	83.00000	76.00000	.69090	99.76800
-20.044	700.380	975.37000	975.37000	81.00000	975.37000	975.28000	83.00000	76.00000	2.45590	99.76800
-20.015	799.620	975.24000	975.24000	81.00000	975.24000	975.28000	83.00000	76.00000	5.02400	99.76800
-19.999	939.740	975.43000	975.46000	81.00000	975.46000	975.28000	83.00000	76.00000	9.02290	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2842/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.004	474.770	974.72000	974.72000	86.00000	974.72000	973.41000	82.00000	76.00000	3.61060	99.76800
-15.008	499.750	974.15000	974.15000	86.00000	974.15000	973.41000	82.00000	76.00000	3.87770	99.76800
-15.017	549.850	973.93000	973.93000	86.00000	973.93000	973.41000	82.00000	76.00000	5.93350	99.76800
-15.042	600.190	973.60000	973.60000	86.00000	973.60000	973.41000	82.00000	76.00000	8.63340	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2846/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.497	349.750	973.83000	973.83000	84.00000	973.83000	973.73000	85.00000	76.00000	14.39100	99.76800
-10.505	399.780	973.54000	973.54000	84.00000	973.54000	973.73000	85.00000	76.00000	13.05300	99.76800
-10.526	449.990	973.92000	973.92000	84.00000	973.92000	973.73000	85.00000	76.00000	14.16200	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK045) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2838/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.020	625.290	600.18000	.04854	-20.01500	2.97270	-.4[illegible]822	-.03790	-.03812	-.00840	.00080	.11706
-20.044	700.380	600.38000	-.08224	-20.03100	2.97010	-.4[illegible]193	-.02853	-.03853	-.00699	.00076	.12257
-20.015	793.620	600.11000	-.16351	-19.99700	2.99760	-.44483	-.01369	-.03786	-.00682	.00090	.12742
-19.999	999.740	600.14000	-.01424	-19.99100	2.99740	-.4[illegible]931	.03716	-.03484	-.00894	.00099	.16630
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2842/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.004	474.770	600.12000	.15165	-15.00000	2.99950	-.3[illegible]558	-.02879	-.03799	-.00826	.00041	.11314
-15.008	499.750	600.23000	-.02239	-15.00100	2.97240	-.3[illegible]632	-.03464	-.03773	-.00832	.00047	.10805
-15.017	549.850	600.19000	.15338	-15.00500	2.99020	-.31798	-.03738	-.04101	-.00674	.00052	.10889
-15.042	600.190	600.21000	.04848	-15.02500	2.97260	-.31161	-.03476	-.03320	-.00826	.00057	.10803
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2846/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.497	349.750	600.07000	-.05919	-10.49000	2.99890	-.3[illegible]753	-.[illegible]177	-.04564	-.00596	.00044	.12352
-10.505	399.780	600.22000	-.03783	-10.49700	2.99500	-.28731	-.02524	-.04260	-.00666	.00030	.10762
-10.526	449.990	600.20000	.02092	-10.51500	2.99910	-.2[illegible]135	-.03402	-.03548	-.00782	.00048	.09988
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC3) L/ET SEPARATING (RVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2823/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-20.018	625.100	.01590	.03206	.00170	.50124	-.04800	-.00096	-.00032	.00268	-.00371	.15927
-19.958	699.540	-.20039	.17066	.00831	.45711	-.05397	-.00284	-.00035	.00312	-.00428	.16021
-20.034	799.470	.00555	.22927	.00418	.28351	-.05636	-.00111	-.00089	.00144	-.01444	.17017
-20.009	999.520	.03199	-.37927	-.00381	.13749	-.02666	-.00325	-.00055	.00072	-.01219	.17985
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2827/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-15.010	474.610	.03031	-.31317	-.00144	.48595	-.04576	-.00219	-.00037	.00334	-.00950	.19052
-15.005	499.330	.15773	-.05707	.00124	.43659	-.05265	-.00112	-.00072	.00298	-.01149	.19051
-14.981	548.900	-.06111	-.18301	.00031	.40947	-.05271	-.00032	-.00101	.00171	-.01287	.19048
-14.987	599.050	-.17122	.22156	.00578	.35062	-.06429	-.00057	-.00087	.00140	-.02225	.18979
-15.047	699.690	.02938	.26341	.00399	.19705	-.04220	-.00120	-.00059	.00006	-.02421	.18090
-15.078	800.210	.26491	-.12620	-.00229	.15707	-.02817	-.00209	-.00043	.00054	-.01819	.18286
-15.012	999.400	.05371	-.02106	.00128	.15208	-.02769	-.00234	-.00052	.00062	-.01751	.19196
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2831/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-10.581	353.640	-1.11330	-.10034	.00043	.37364	-.03533	-.00247	-.00035	.00224	-.01049	.18625
-10.519	399.300	.06941	.03551	.00192	.31934	-.03935	-.00268	-.00032	.00164	-.01471	.18688
-10.493	449.070	.00979	.39702	.00764	.29070	-.04326	-.00183	-.00058	.00043	-.01747	.18683
-10.489	499.020	-.05541	-.08020	.00059	.27105	-.04724	-.00058	-.00086	.00001	-.01659	.18714
-10.543	599.570	.08792	-.01111	.00121	.17430	-.03420	-.00231	-.00061	.00041	-.01737	.18766
-10.553	699.900	.17343	.04249	.00108	.16077	-.03040	-.00291	-.00045	.00047	-.01801	.18724
-10.516	799.310	.09032	.33303	.00057	.15244	-.02779	-.00276	-.00054	.00059	-.01723	.18773
-10.512	999.250	.06682	.05776	.00232	.15315	-.02780	-.00292	-.00052	.00059	-.01729	.18749
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DSETA = .000 X = .000
Y = .000 ELEVON = .000
UNDLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2465/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CSLR	CAR	WM
-5.051	169.950	-.63364	-.09805	-.00332	.30388	-.01459	-.01214	-.00025	.00047	.00906	.18576
-5.007	191.640	.00537	.15317	-.00903	.30386	-.01139	-.01109	-.00032	.00049	.00416	.18595
-4.990	241.160	.00702	-.50604	-.00332	.20395	-.01131	-.01184	-.00011	-.00004	-.00468	.18589
-4.979	291.020	-.00379	-.01704	-.00833	.29331	-.01103	-.01163	-.00004	.00083	-.00902	.18589
-4.977	391.000	-.01809	-.00372	-.00846	.20[illegible]51	-.01[illegible]13	-.01147	-.00015	.00016	-.00709	.19427
-5.012	491.370	.00376	-.07501	-.00314	.2[illegible]273	-.00870	-.01078	-.00033	.00009	-.00719	.18539
-5.034	591.670	.18[illegible]3	-.0[illegible]7	-.01044	.17[illegible]3	-.00[illegible]73	-.01030	-.00034	.00008	-.00807	.18565
-5.001	691.510	.18[illegible]1	-.0[illegible]30	-.00972	.18[illegible]5	-.0[illegible]6	-.01[illegible]4	-.00035	.00009	-.00708	.18730
-5.001	791.440	.18000	.18389	-.00857	.18039	-.00[illegible]3	-.01004	-.00034	.00008	-.00721	.19000
-4.996	991.330	.18338	-.47116	-.01026	.18034	-.00[illegible]02	-.01108	-.00034	.00008	-.00739	.19485
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CSLR	CAR	WM
-.021	12.445	.07165	1.[illegible]0	.01341	.18[illegible]0	-.00[illegible]73	-.01033	-.00035	.00059	-.00354	.18902
-.028	41.949	.00073	1.[illegible]0	.01409	.10340	-.02[illegible]42	-.01176	-.00009	.00035	-.00130	.18921
-.001	91.455	-.00318	-.0[illegible]94	-.00193	.21471	-.01[illegible]5	-.01195	-.00028	.00040	.00503	.18937
.004	141.240	-.00180	-.20[illegible]9	-.00838	.22[illegible]7	-.01[illegible]0	-.01136	-.00002	-.00030	-.00310	.18946
.016	191.130	.01078	-.17[illegible]8	-.00[illegible]84	.21[illegible]6	-.01373	-.01127	-.00[illegible]15	-.00013	-.00756	.18939
.024	290.030	.04[illegible]0	-.03[illegible]6	-.00829	.21719	-.02315	-.01214	.00003	.00000	-.00776	.18907
-.013	391.370	.10192	.01079	-.00472	.22041	-.00[illegible]37	-.01112	-.00027	.00012	-.00545	.16339
-.011	491.400	-.00[illegible]8	-.0[illegible]54	-.00433	.18121	-.03[illegible]2	-.01[illegible]5	-.00033	.00004	-.00[illegible]31	.18911
-.000	591.420	.10[illegible]78	.1[illegible]917	-.00011	.17483	-.03[illegible]74	-.01070	-.00[illegible]09	.00003	-.00383	.18914
.000	791.310	.08874	-.00[illegible]01	-.00807	.17331	-.02[illegible]57	-.01165	-.00035	.00057	-.00796	.18921
.002	871.250	.10143	-.00[illegible]89	-.00873	.17362	-.02[illegible]34	-.01020	-.00034	.00056	-.00809	.18930
	GRADIENT	.00000	.00000	.00000	.00000	.00[illegible]00	.00000	.00000	.00000	.00000	.00000

RUN NO. 2471/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CSLR	CAR	WM
5.032	-60.134	1.12[illegible]0	-.42[illegible]1	-.00[illegible]3	.14434	-.05[illegible]7	-.01195	.00010	.00017	-.01258	.18959
4.971	7.500	-.05119	.12733	-.00[illegible]3	.17133	-.02[illegible]7	-.01167	-.00009	.00044	-.00332	.18938
4.999	41.420	.03019	-.42434	-.00791	.18144	-.02[illegible]9	-.01[illegible]5	-.00011	.00057	-.00038	.18994
5.004	91.207	.01[illegible]2	.03[illegible]8	-.00110	.20404	-.01[illegible]3	-.01186	-.00003	-.00005	-.00508	.16938
5.019	190.650	.02[illegible]1	.03[illegible]2	-.00011	.20325	-.02[illegible]2	-.01195	-.00009	.00005	-.00548	.16939
4.975	291.420	-.03[illegible]4	.25[illegible]5	-.00120	.21639	-.02[illegible]6	-.01171	-.00023	.00041	-.00916	.16907
4.939	391.260	.03[illegible]7	.17830	-.00141	.20304	-.03[illegible]8	-.01104	-.00032	.00011	-.00959	.18921
4.988	531.350	.10[illegible]2	-.07815	-.00810	.19135	-.02[illegible]9	-.01102	-.00034	.00026	-.01107	.18889
	GRADIENT	-.00283	.01503	-.00052	.02285	-.00[illegible]6	-.00156	-.00001	.00006	-.00044	.02525

V41B-D9A (IA22),ORBITER(04RC3) WET SEPARATING (SVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2823/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.018	625.100	-.01700	-.00103	.00170	.26344	-.01211	.02506	.00658	-.00046	.00290
-19.958	699.540	-.03500	-.00122	.00831	.21920	-.02597	.02451	.00470	-.00049	.00334
-20.034	799.470	-.03600	-.00022	.00418	.04277	-.02223	.01469	.00652	-.00083	.00167
-20.009	999.520	-.01500	-.00058	-.00381	-.11339	.01120	.01818	.00471	-.00070	.00096
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2827/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.010	474.610	-.01700	-.00111	-.00144	.18828	-.00485	.02410	.00662	-.00053	.00360
-15.005	499.330	-.02400	-.00093	.00124	.15915	-.01051	.02221	.00771	-.00088	.00324
-14.991	548.900	-.03400	-.00066	.00031	.13094	-.02068	.02083	.00852	-.00118	.00197
-14.987	599.050	-.03300	-.00065	.00578	.07222	-.02228	.01144	.00825	-.00103	.00166
-15.047	699.690	-.02600	-.00086	.00309	-.07815	-.00067	.00309	.00753	-.00076	.00032
-15.078	800.210	-.01600	-.00084	-.00229	-.11552	.01196	.01479	.00575	-.00059	.00080
-15.012	999.400	-.01500	-.00071	.00128	-.12051	.01346	.01549	.00591	-.00068	.00088
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2831/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.581	353.640	-.01200	-.00099	.00043	.09982	.00499	.02264	.00621	-.00051	.00249
-10.519	399.300	-.01700	-.00107	.00192	.04569	.00195	.01841	.00599	-.00048	.00189
-10.493	449.070	-.02200	-.00074	.00764	.01762	-.00205	.01557	.00683	-.00084	.00069
-10.489	499.020	-.02700	-.00062	.00069	-.00194	-.00604	.01645	.00808	-.00103	.00026
-10.543	599.570	-.02000	-.00071	.00121	-.08950	.00697	.01554	.00634	-.00077	.00066
-10.553	699.900	-.01700	-.00093	.00106	-.11236	.01082	.01504	.00575	-.00062	.00073
-10.516	799.310	-.01500	-.00070	.00267	-.12095	.01346	.01505	.00591	-.00070	.00085
-10.512	999.250	-.01500	-.00072	.00232	-.12070	.01352	.01595	.00576	-.00069	.00085
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA	=	.000	BETA	=	.000
DBETA	=	.000	X	=	.000
Y	=	.000	ELEVON	=	.000
UMBLDR	=	.000	RCS	=	1.000
GAS	=	1.000			

RUN NO. 2465/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.051	169.950	.00440	-.00084	-.00332	.02986	.02651	.04225	-.00344	-.00041	.00073
-5.007	191.640	.00370	-.00059	-.00402	.02895	.02566	.03731	-.00241	-.00048	.00075
-4.990	241.160	-.00170	-.00087	-.00832	-.0065	.02167	.02843	-.00297	-.00027	.00022
-4.979	291.020	-.00770	-.00103	-.00253	-.02775	.01598	.02402	-.00319	-.00020	.00055
-4.977	391.090	-.01030	-.00094	-.00346	-.04872	.01443	.02611	-.00277	-.00031	.00042
-5.012	491.370	-.01670	-.00084	-.00614	-.08533	.00869	.02607	-.00208	-.00050	.00034
-5.024	591.670	-.01570	-.00090	-.01044	-.09338	.01120	.02415	-.00179	-.00051	.00034
-5.001	691.510	-.01400	-.00077	-.00472	-.10611	.01337	.02614	-.00213	-.00051	.00033
-5.001	791.440	-.01390	-.00077	-.00087	-.10395	.01355	.02610	-.00222	-.00050	.00084
-4.996	991.330	-.01350	-.00077	-.01026	-.10706	.01352	.02589	-.00233	-.00051	.00084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2468/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.021	12.445	-.01269	-.00054	.01541	-.11397	.01550	.03033	-.00145	-.00072	.00085
-.028	41.949	-.00718	-.00095	.01468	-.09549	.02082	.03257	-.00289	-.00025	.00061
-.001	91.456	-.00427	-.00071	-.00199	-.06528	.02231	.03391	-.00307	-.00044	.00067
.004	141.240	-.00158	-.00097	-.00589	-.05032	.02448	.03080	-.00248	-.00019	-.00003
.016	191.130	-.00120	-.00082	-.00464	-.05323	.02555	.02834	-.00238	-.00031	.00013
.024	290.860	-.00700	-.00108	-.00239	-.06313	.01915	.02616	-.00325	-.00014	.00027
-.013	391.370	-.01394	-.00068	-.00472	-.06004	.01135	.02648	-.00223	-.00043	.00038
-.011	491.400	-.01553	-.00093	-.00433	-.09908	.01149	.02460	-.00194	-.00050	.00030
-.000	591.420	-.01400	-.00075	-.00011	-.10868	.01389	.02410	-.00178	-.00055	.00055
.000	791.310	-.01388	-.00078	-.00307	-.10810	.01390	.02609	-.00213	-.0005	.00083
.002	871.250	-.01384	-.00079	-.00373	-.10704	.01394	.02597	-.00197	-.00050	.00083
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2471/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.052	-60.134	-.02100	-.00134	-.00798	-.14341	.00775	.02224	-.00283	-.00007	.00044
4.971	7.590	-.01130	-.00101	-.00368	-.11652	.01750	.03153	-.00253	-.00026	.00071
4.999	41.420	-.00970	-.00094	-.00791	-.10578	.01991	.03450	-.00342	-.00028	.00084
5.004	91.207	-.00330	-.00037	-.00110	-.08468	.02499	.02805	-.00271	-.00020	.00022
5.019	190.660	-.00490	-.00093	-.00011	-.08231	.02303	.02643	-.00220	-.00026	.00033
4.975	291.420	-.00850	-.00035	-.00120	-.07239	.01711	.02579	-.00255	-.00040	.00068
4.989	391.280	-.01520	-.00086	-.00141	-.08574	.01150	.02535	-.00188	-.00049	.00039
4.988	531.350	-.01380	-.00081	-.00510	-.10779	.01414	.02392	-.00185	-.00051	.00053
	GRADIENT	-.00151	-.00013	-.00052	-.01555	.00233	.00420	-.00034	-.00004	.00009

V41B-D9A (IA22),ORBITER(04:C3) W/ET SEPARATING (TVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2823/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.018	625.100	.01590	.03206	-.07495	-.29883	88.42000	.00000	.00000	556.56000	.00000	.00000
-19.958	698.540	-.20039	.17086	-.06326	-.28432	88.50000	.00000	.00000	556.80000	.00000	.00000
-20.034	799.470	.00855	.22927	.34467	.29976	90.74000	.00000	.00000	563.43000	.00000	.00000
-20.009	999.520	.03199	-.37927	.05999	-.08171	98.78000	.00000	.00000	587.17000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2827/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.010	474.610	.03031	-.31317	-.18837	-.48833	220.01000	.00000	.00000	649.88000	.00000	.00000
-15.005	499.330	.15773	-.05707	-.20754	-.52748	220.71000	.00000	.00000	651.94000	.00000	.00000
-14.991	548.900	-.06111	-.18801	.16546	-.02184	220.69000	.00000	.00000	651.89000	.00000	.00000
-14.987	599.050	-.17122	.22155	.37289	.30006	220.53000	.00000	.00000	651.59000	.00000	.00000
-15.047	699.690	.02558	.23541	.05803	-.10354	218.05000	.00000	.00000	644.11000	.00000	.00000
-15.078	800.210	.26491	-.12620	.06202	-.08389	215.53000	.00000	.00000	637.97000	.00000	.00000
-15.012	999.400	.05371	-.02106	.05671	-.06002	216.07000	.00000	.00000	638.24000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2831/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.591	353.640	-1.11330	-.10034	-.09765	-.39210	216.93000	.00000	.00000	640.87000	.00000	.00000
-10.519	399.300	.06941	.03951	.20126	.03812	216.82000	.00000	.00000	640.45000	.00000	.00000
-10.493	449.070	.00979	.39702	.02770	-.18618	216.38000	.00000	.00000	639.15000	.00000	.00000
-10.489	499.020	-.05541	-.08020	.04086	-.12235	216.31000	.00000	.00000	639.54000	.00000	.00000
-10.543	599.570	.08792	-.01111	.05171	-.06361	216.15000	.00000	.00000	638.48000	.00000	.00000
-10.553	699.900	.17343	.04249	.05024	-.04949	216.41000	.00000	.00000	639.26000	.00000	.00000
-10.516	799.310	.09032	.33303	.04314	-.03576	216.61000	.00000	.00000	639.85000	.00000	.00000
-10.512	999.250	.06092	.05776	.03595	-.02364	216.93000	.00000	.00000	640.94000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04HC3) W/ET SEPARATING (TVK046) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2465/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.051	169.950	-.66354	-.09905	-.05955	-.13947	217.35000	.00000	.00000	642.04000	.00000	.00000
-5.007	191.640	.00997	.15517	.00038	.06827	217.11000	.00000	.00000	641.32000	.00000	.00000
-4.990	241.160	.00702	-.50594	.00326	-.07991	216.76000	.00000	.00000	640.28000	.00000	.00000
-4.979	291.020	-.06579	-.01704	.03228	-.01502	216.36000	.00000	.00000	639.09000	.00000	.00000
-4.977	391.090	-.01539	-.03672	.01045	-.05728	217.33000	.00000	.00000	642.05000	.00000	.00000
-5.012	491.370	.03976	-.07301	.01431	-.04416	217.80000	.00000	.00000	643.37000	.00000	.00000
-5.024	591.670	.15238	-.52397	.03027	-.01359	217.52000	.00000	.00000	642.52000	.00000	.00000
-5.001	691.510	.13691	-.09320	.02654	-.01561	217.54000	.00000	.00000	642.60000	.00000	.00000
-5.001	791.440	.13030	.18239	.02653	-.01446	218.09000	.00000	.00000	644.20000	.00000	.00000
-4.995	991.330	.12033	-.47116	.02577	-.01433	218.61000	.00000	.00000	645.75000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2468/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.021	12.445	.07165	1.38390	-.01055	-.06444	221.75000	.00000	.00000	655.04000	.00000	.00000
-.028	41.949	.03973	1.23250	.02647	-.00220	221.77000	.00000	.00000	655.09000	.00000	.00000
-.001	91.456	-.00318	-.02494	.02702	-.00552	221.85000	.00000	.00000	655.31000	.00000	.00000
.004	141.240	-.00160	-.20409	.00035	-.03745	222.00000	.00000	.00000	655.77000	.00000	.00000
.016	191.130	.01078	-.17768	.02689	-.00393	222.01000	.00000	.00000	655.78000	.00000	.00000
.024	290.660	.04330	-.05438	.01074	-.02730	222.11000	.00000	.00000	656.07000	.00000	.00000
-.013	391.370	.18192	.00879	.00385	-.04315	222.21000	.00000	.00000	656.33000	.00000	.00000
-.011	491.400	-.00909	-.06654	.02147	-.00749	222.65000	.00000	.00000	657.67000	.00000	.00000
-.000	591.420	.13370	.18317	.02378	-.01355	222.78000	.00000	.00000	658.06000	.00000	.00000
.000	791.310	.05274	-.06251	.02250	-.00978	222.97000	.00000	.00000	658.64000	.00000	.00000
.002	871.250	.10143	-.09359	.02180	-.00948	223.02000	.00000	.00000	658.76000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2471/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.052	-60.134	1.12420	-.43051	.01465	.00012	228.00000	.00000	.00000	673.48000	.00000	.00000
4.971	7.500	-.05119	.12733	.01649	-.00509	228.20000	.00000	.00000	674.07000	.00000	.00000
4.999	41.420	.02919	-.42434	.01493	-.01503	228.37000	.00000	.00000	674.59000	.00000	.00000
5.004	91.207	.05022	.03432	.01614	.00223	228.77000	.00000	.00000	675.75000	.00000	.00000
5.019	190.660	.06251	.03202	.01402	-.00122	228.64000	.00000	.00000	675.38000	.00000	.00000
4.975	291.420	-.03244	.24556	-.00041	-.03534	228.81000	.00000	.00000	675.89000	.00000	.00000
4.999	391.260	.05997	.17300	.00511	-.02359	228.81000	.00000	.00000	675.89000	.00000	.00000
4.988	531.350	.10532	-.07615	.01949	-.00878	229.03000	.00000	.00000	676.72000	.00000	.00000
	GRADIENT	-.00683	.01698	.00220	-.00068	30.42586	.00000	.00000	89.87360	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMSLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2823/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.018	625.100	832.90000	832.90000	85.00000	832.90000	832.73000	86.00000	77.00000	28.99000	99.64200
-19.958	693.540	832.85000	832.85000	85.00000	832.85000	832.73000	86.00000	77.00000	31.65400	99.64200
-20.034	799.470	843.19000	843.19000	85.00000	843.19000	832.73000	86.00000	77.00000	34.90000	99.64200
-20.009	939.520	830.83000	830.83000	85.00000	830.83000	832.73000	86.00000	77.00000	23.69000	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2827/ 0 RN/L = .28 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.010	474.610	984.99000	984.99000	83.00000	984.99000	984.80000	86.00000	78.00000	27.69300	99.64200
-15.005	499.330	985.70000	985.70000	83.00000	985.70000	984.80000	86.00000	78.00000	27.93900	99.64200
-14.991	548.900	986.10000	986.10000	83.00000	986.10000	984.80000	86.00000	78.00000	27.37100	99.64200
-14.987	598.050	985.65000	985.65000	83.00000	985.65000	984.80000	86.00000	78.00000	27.35300	99.64200
-15.047	699.690	974.81000	974.81000	83.00000	974.81000	984.80000	86.00000	78.00000	23.60100	99.64200
-15.078	800.210	987.03000	987.03000	83.00000	987.03000	984.80000	86.00000	78.00000	17.12100	99.64200
-15.012	999.400	988.29000	988.29000	83.00000	988.29000	984.80000	86.00000	78.00000	10.53500	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2831/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.581	353.640	974.17000	974.17000	83.00000	974.17000	973.98000	85.00000	78.00000	25.22700	99.76800
-10.519	399.300	972.59000	972.59000	83.00000	972.59000	973.98000	85.00000	78.00000	24.65300	99.76800
-10.493	449.070	972.02000	972.02000	83.00000	972.02000	973.98000	85.00000	78.00000	23.25000	99.76800
-10.489	499.020	971.71000	971.71000	83.00000	971.71000	973.98000	85.00000	78.00000	20.77700	99.76800
-10.543	599.570	971.48000	971.48000	83.00000	971.48000	973.98000	85.00000	78.00000	13.46200	99.76800
-10.553	699.900	971.25000	971.25000	83.00000	971.25000	973.98000	85.00000	78.00000	7.26040	99.76800
-10.516	799.310	971.68000	971.68000	83.00000	971.68000	973.98000	85.00000	78.00000	3.09340	99.76800
-10.512	999.250	971.43000	971.43000	83.00000	971.43000	973.98000	85.00000	78.00000	-.96463	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.8000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLOR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2465/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.051	169.950	967.92000	967.92000	81.00000	967.92000	967.70000	67.00000	74.00000	-.03344	99.76800
-5.007	191.640	966.37000	966.37000	81.00000	966.37000	967.70000	67.00000	74.00000	12.07800	99.76800
-4.990	241.160	964.82000	964.82000	81.00000	964.82000	967.70000	67.00000	74.00000	11.53600	99.76800
-4.979	291.020	963.01000	963.01000	81.00000	963.01000	967.70000	67.00000	74.00000	8.64550	99.76800
-4.977	391.090	967.47000	967.47000	81.00000	967.47000	967.70000	67.00000	74.00000	4.94690	99.76800
-5.012	491.370	969.92000	969.92000	81.00000	969.92000	967.70000	67.00000	74.00000	3.50900	99.76800
-5.024	591.670	968.65000	968.65000	81.00000	968.65000	967.70000	67.00000	74.00000	2.76630	99.76800
-5.001	691.510	968.77000	968.77000	81.00000	968.77000	967.70000	67.00000	74.00000	.77942	99.76800
-5.001	791.440	971.18000	971.18000	81.00000	971.18000	967.70000	67.00000	74.00000	-.93524	99.76800
-4.996	991.330	973.51000	973.51000	81.00000	973.51000	967.70000	67.00000	74.00000	-2.67310	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2468/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.021	12.445	973.92000	973.92000	80.00000	973.92000	973.75000	66.00000	74.00000	-5.93540	99.76800
-.028	41.949	974.04000	974.04000	80.00000	974.04000	973.75000	66.00000	74.00000	-6.05890	99.76800
-.001	91.456	974.37000	974.37000	80.00000	974.37000	973.75000	66.00000	74.00000	-5.87640	99.76800
.004	141.240	974.02000	974.02000	80.00000	974.02000	973.75000	66.00000	74.00000	-5.01300	99.76800
.016	191.130	974.10000	974.10000	80.00000	974.10000	973.75000	66.00000	74.00000	-4.52330	99.76800
.024	250.630	974.02000	974.02000	80.00000	974.02000	973.75000	66.00000	74.00000	-5.53000	99.76800
-.013	391.370	974.03000	974.03000	80.00000	974.03000	973.75000	66.00000	74.00000	-6.28230	99.76800
-.011	491.400	973.93000	973.93000	80.00000	973.93000	973.75000	66.00000	74.00000	-5.55310	99.76800
-.000	591.420	974.11000	974.11000	80.00000	974.11000	973.75000	66.00000	74.00000	-5.81050	99.76800
.000	791.310	973.97000	973.97000	80.00000	973.97000	973.75000	66.00000	74.00000	-6.19550	99.76800
.002	871.250	974.15000	974.15000	80.00000	974.15000	973.75000	66.00000	74.00000	-6.79320	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2471/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.052	-60.134	973.02000	973.02000	79.00000	973.02000	972.81000	66.00000	74.00000	-8.29720	99.64200
4.971	7.500	973.38000	973.38000	79.00000	973.38000	972.81000	66.00000	74.00000	-8.82530	99.64200
4.999	41.420	973.63000	973.63000	79.00000	973.63000	972.81000	66.00000	74.00000	-9.95620	99.64200
5.004	91.207	973.80000	973.80000	79.00000	973.80000	972.81000	66.00000	74.00000	-9.46520	99.64200
5.019	190.630	973.75000	973.75000	79.00000	973.75000	972.81000	66.00000	74.00000	-9.10500	99.64200
4.975	291.420	973.51000	973.51000	79.00000	973.51000	972.81000	66.00000	74.00000	-10.52000	99.64200
4.999	391.260	973.51000	973.51000	79.00000	973.51000	972.81000	66.00000	74.00000	-10.05700	99.64200
4.988	531.350	973.70000	973.70000	79.00000	973.70000	972.81000	66.00000	74.00000	-9.32200	99.64200
	GRADIENT	129.78054	129.78054	10.53305	129.78054	129.70454	8.79977	9.86540	-1.17668	13.28525

DATE 06 MAY 77

TABULATED SOURCE DATA, IA22, (AEDC V41B-D9A)

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3)

(AVK048) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1280.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UKELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2823/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.018	625.100	.01520	.03205	-20.03500	.00025	-.43407	.00292	.01505	.00004	.00012	.12917
-19.988	693.540	-.20059	.17003	-19.93300	.00710	-.44415	.01007	.01754	-.00173	.00064	.15315
-20.034	799.470	.00035	.23027	-20.07000	.00335	-.40214	.00046	.01649	-.00118	.00059	.14805
-20.009	999.620	.03199	-.37027	-20.02400	-.00439	-.32451	-.04127	.01302	.00056	.00012	.12340
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2827/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.010	474.610	.03031	-.31317	-15.02700	-.00555	-.31309	-.00303	.01149	.00056	.00011	.10893
-15.005	499.330	.15773	-.03707	-15.03000	.00041	-.31003	-.01133	.01220	.00021	.00006	.11338
-14.981	548.900	-.09111	-.18001	-15.01500	-.00035	-.30303	-.00187	.01339	-.00045	.00013	.12397
-14.987	599.050	-.17122	.22155	-15.03300	.00493	-.31005	.00037	.01319	-.00094	.00027	.13679
-15.047	699.690	.05003	.20041	-15.07300	.00303	-.27003	-.00002	.01193	-.00014	.00024	.12024
-15.078	800.210	.20131	-.12020	-15.09400	-.00313	-.22010	-.03754	.00978	.00120	-.00003	.10552
-15.012	953.400	.05071	-.02105	-15.02700	.00035	-.21003	-.03002	.00819	.00134	-.00002	.10851
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2831/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.581	353.640	-1.11330	-.10034	-10.59300	-.00055	-.22796	-.00170	.01055	-.00039	-.00001	.11097
-10.519	393.300	.08041	.03051	-10.52300	.00005	-.21002	-.00318	.01067	-.00006	-.00006	.10486
-10.493	449.070	.00079	.33702	-10.51600	.00039	-.21410	-.00057	.01145	-.00036	-.00005	.11277
-10.489	493.020	-.00341	-.00020	-10.51000	.00007	-.21033	.00703	.01072	-.00042	.00001	.12142
-10.543	503.570	.05702	-.01111	-10.55300	.00030	-.18185	-.00330	.00939	.00030	.00001	.11351
-10.553	603.900	.17343	.01349	-10.57000	.00023	-.14030	-.03151	.00933	.00130	-.00021	.09774
-10.516	793.310	.00032	.33303	-10.53100	.00005	-.12030	-.03114	.00815	.00134	-.00021	.09942
-10.512	999.250	.05032	.05776	-10.52700	.00160	-.15023	-.03113	.00793	.00138	-.00021	.10058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK048) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMDLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2465/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.051	169.950	-.03354	-.09305	-5.04989	-.00306	-.16170	.00335	.00755	-.00107	.00042	.10139
-5.007	191.640	.00037	.15517	-5.00220	-.00461	-.14570	.00285	.00461	.00029	.00023	.09288
-4.990	241.160	.00702	-.50004	-4.99380	-.00019	-.12913	.00136	.00035	.00017	.00014	.09429
-4.979	291.020	-.00373	-.01704	-4.99370	-.00035	-.12484	.00314	.00032	-.00030	.00005	.09737
-4.977	391.000	-.01000	-.03372	-4.99700	-.00490	-.12100	.01276	.00371	-.00003	.00012	.10534
-5.012	491.370	.07076	-.07201	-5.03170	-.00010	-.00024	-.00100	.00013	.00030	.00013	.00022
-5.024	591.670	.10220	-.50007	-5.00170	-.01124	-.01004	-.01071	.00103	.00079	-.00007	.00021
-5.001	691.510	.13031	-.00000	-5.01340	-.00049	-.00000	-.01005	.00449	.00076	-.00007	.00248
-5.001	791.440	.13020	.10339	-5.01960	-.00103	-.00006	-.01005	.00427	.00079	-.00007	.00250
-4.995	991.330	.12019	-.47116	-5.00030	-.01103	-.03121	-.01519	.00449	.00077	-.00007	.00200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2483/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.021	12.445	.07185	1.30300	-.03413	.01407	-.03109	-.00733	.00383	.00057	.00016	.00331
-.028	41.949	.00073	1.28050	-.03031	.01373	-.04770	-.00314	.00489	.00073	.00017	.00353
-.001	91.455	-.00318	-.02434	-.00339	-.00270	-.00703	.00237	.00021	.00035	.00004	.00007
.004	141.240	-.00180	-.20439	.00251	-.00005	-.00502	.00285	.00062	.00003	.00003	.00067
.016	191.130	.01078	-.17703	.01453	-.00046	-.03142	.01044	.00446	.00000	.00003	.00355
.024	290.630	.00330	-.00483	.01009	-.00018	-.03139	.00321	.00027	-.00073	.00011	.00275
-.013	391.370	.10102	.00379	-.03742	-.00030	-.02189	.00037	.00303	-.00001	-.00009	.00288
-.011	491.400	-.00758	-.01004	-.03374	-.00316	-.00007	.00981	.00408	.00025	-.00003	.00318
-.000	591.420	.13070	.10017	-.01413	-.00023	-.00029	.00102	.00444	.00047	-.00008	.00341
.000	791.310	.00274	-.00281	-.01307	-.00253	-.00333	.00029	.00403	.00033	-.00008	.00044
.002	871.250	.10143	-.00339	-.01104	-.00453	-.00302	.00009	.00418	.00051	-.00009	.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2471/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.052	-60.134	1.12420	-.43051	5.03110	-.00322	.05163	.00301	.01263	-.00078	-.00004	.00314
4.971	7.500	-.05119	.12733	4.99030	-.00409	.00378	.01157	.00313	.00051	.00006	.00535
4.939	41.420	.05019	-.42434	4.99020	-.00035	.00109	.01734	.00339	.00025	.00002	.00738
5.004	91.207	.00002	.03432	5.00110	-.00208	-.00329	.00324	.00375	-.00029	-.00004	.00036
5.019	190.650	.00231	.00002	5.01410	-.00104	.01037	.00003	.00564	-.00141	-.00004	.00106
4.975	291.420	-.03344	.24533	4.99300	-.00206	.03341	.02307	.00346	-.00048	-.00008	.00009
4.939	391.280	.05037	.17300	4.97400	-.00227	.04697	.01767	.00352	.00010	-.00010	.00758
4.988	531.350	.10302	-.07515	4.97420	-.00300	.04917	.01746	.00349	.00026	-.00010	.00307
	GRADIENT	-.00533	.01029	.65126	-.00055	.00077	.00154	.00082	.00007	.00001	.01138

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(O4R:3) W/ET SEPARATING (RVK047) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2824/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.041	625.750	200.20000	-.21663	-.00424	.46287	-.08145	.00163	-.00130	.00379	-.02230	.18994
-20.036	700.520	200.30000	.23133	.00333	.33879	-.07170	-.00107	.00018	.00101	-.03544	.18972
-20.013	783.700	200.00000	.11822	.00343	.20272	-.06172	.00009	-.00013	-.00050	-.03000	.19019
-20.014	903.500	199.90000	.24194	.00103	.14033	-.05[illegible]	-.00006	-.00009	.00007	-.01333	.18004
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2828/ 0 RN/L = .88 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-14.933	474.450	200.07000	.00202	.00197	.48070	-.08031	.00009	-.00091	.00106	-.01491	.18541
-15.035	500.070	200.13000	-.02373	-.00049	.[illegible]031	-.08193	.00006	-.00020	.00073	-.01781	.18505
-15.032	549.970	200.14000	-.42212	-.00225	.27[illegible]24	-.05703	.00021	-.00061	.00034	-.02436	.18544
-15.036	600.150	200.20000	.00231	-.00174	.22000	-.04077	-.00005	-.00002	.00050	-.02811	.18473
-14.935	693.870	199.93000	.32303	.01005	.17324	-.03[illegible]08	-.00037	-.00033	.00015	-.01554	.19393
-14.989	799.190	200.04000	-.11301	.00123	.15433	-.02791	-.00287	-.00050	.00060	-.01792	.18307
-15.016	899.370	200.03000	-.07504	.00083	.15[illegible]59	-.02807	-.00287	-.00051	.00060	-.01860	.19103
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2832/ 0 RN/L = .88 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.487	349.530	200.07000	.02193	.00311	.34305	-.04003	-.00139	-.00053	.00054	-.01910	.18774
-10.524	398.690	200.16000	-.46316	-.00004	.27312	-.04077	-.00119	-.00078	.00022	-.01634	.18751
-10.530	449.930	200.09000	.27730	.00500	.25357	-.04217	-.00184	-.00074	.00046	-.01559	.18779
-10.540	500.030	200.18000	-.15373	-.00104	.20389	-.03791	-.00123	-.00061	.00055	-.01689	.18786
-10.405	603.030	200.[illegible]000	-.23009	.00154	.16870	-.03274	-.00137	-.00026	.00019	-.01816	.18770
-10.503	603.130	200.04000	-.20216	-.00007	.15[illegible]03	-.03011	-.00078	-.00023	.00029	-.01743	.18777
-10.510	703.450	200.02000	.15331	.00419	.15[illegible]05	-.02713	-.00107	-.00034	.00008	-.01724	.18798
-10.510	903.300	199.87000	.23319	.00223	.13401	-.02703	-.00177	-.00003	.00009	-.01734	.18740
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER:04RC3) W/ET SEPARATING (RVK047) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2466/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	WM
-5.018	167.190	200.16000	.43997	.00345	.31954	-.01982	-.01115	-.00015	.00049	-.00484	.18923
-4.995	192.020	200.12000	-.11314	-.00334	.30227	-.02567	-.01178	-.00004	.00040	-.00680	.18972
-5.010	241.950	200.10000	-.27727	-.00573	.25332	-.02411	-.01206	-.00004	.00004	-.00695	.18919
-5.027	292.360	200.13000	-.02116	-.00413	.23794	-.02509	-.01213	.00005	-.00017	-.00800	.18891
-5.017	392.260	200.03000	-.07339	-.00512	.23115	-.03242	-.01082	-.00031	.00005	-.00434	.18859
-4.986	491.240	200.03000	-.05209	-.00158	.18173	-.03139	-.01047	-.00035	.00003	-.00847	.18934
-4.992	591.450	200.18000	.00407	-.00287	.17035	-.02852	-.01078	-.00035	.00020	-.00917	.18837
-4.999	691.530	200.16000	-.02538	-.00378	.16202	-.02794	-.01101	-.00034	.00059	-.00703	.18848
-5.000	791.470	200.21000	-.26879	-.00852	.16826	-.02797	-.01084	-.00036	.00058	-.00701	.18891
-4.996	991.320	200.09000	.03490	-.00307	.16053	-.02800	-.01095	-.00037	.00059	-.00698	.18793
	GRADIENT	.00090	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	WM
-.022	11 797	200.03000	-.14697	-.00386	.20853	-.01395	-.01173	-.00050	.00022	.00433	.18910
-.025	42 930	200.03000	.18301	.00107	.23724	-.01215	-.01132	-.00020	-.00016	.00213	.18949
-.037	92.219	200.03000	2.33220	.05033	.25077	-.01258	-.01169	-.00020	-.00005	-.00189	.18870
-.025	142.110	200.10000	-.30035	-.00717	.22605	-.01744	-.01147	-.00003	-.00010	-.00744	.18914
-.027	192.170	200.11000	.08397	-.00095	.23000	-.02022	-.01189	-.00004	.00006	-.00644	.18872
-.012	292.060	200.05000	.65221	.00579	.22315	-.02859	-.01160	-.00024	.00035	-.00786	.18835
.026	391.350	200.11000	-.47431	-.00256	.20420	-.03273	-.01100	-.00031	.00011	-.00850	.18836
.006	491.420	200.05000	-.26357	-.00545	.18139	-.03089	-.01085	-.00029	.00014	-.01033	.18933
.001	591.450	200.01000	-.18426	-.00517	.17450	-.02838	-.01110	-.00032	.00055	-.00815	.18947
.001	791.410	200.03000	-.29486	-.00630	.17401	-.02851	-.01086	-.00034	.00056	-.00802	.18886
.001	871.340	200.00000	-.16489	-.00506	.17371	-.02880	-.01101	-.00033	.00055	-.00816	.18893
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2472/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	WM
5.006	-58.981	200.09000	-.10514	-.00414	.16502	-.02606	-.01274	-.00061	.00030	-.00435	.18924
4.983	6.622	200.04000	.29537	.00334	.20579	-.01690	-.01204	-.00015	.00009	-.00032	.18899
4.980	42.136	200.01000	-.22080	-.00355	.21724	-.01464	-.01162	-.00017	-.00016	-.00459	.18920
4.954	92.318	200.03000	2.62070	.03483	.21065	-.01704	-.01144	-.00018	-.00011	-.00870	.18895
4.976	191.940	200.03000	.25348	-.00089	.21635	-.02057	-.01213	.00002	.00007	-.00535	.18895
5.009	291.320	200.10000	.20827	.00096	.22344	-.03147	-.01125	-.00026	.00012	-.00741	.18927
4.993	391.450	200.13000	.02462	-.00118	.16774	-.03133	-.01101	-.00035	.00008	-.01095	.18910
4.992	531.330	200.15000	-.30823	-.00517	.18018	-.02935	-.01098	-.00033	.00053	-.00914	.18917
	GRADIENT	30.20931	.04461	.00050	.03108	-.00255	-.00182	-.00002	.00001	-.00005	.02854

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK047) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2824/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.041	625.750	-.04900	-.00061	-.00424	.18401	-.03935	.01146	.01071	-.00147	.00405
-20.056	700.520	-.04500	-.00209	.00326	.06110	-.02934	.00029	.00777	.00001	.00127
-20.013	799.780	-.03900	-.00161	.00343	.00550	-.01971	.00309	.00952	-.00085	-.00063
-20.014	999.580	-.01900	-.00057	.00459	-.11750	.01242	.01759	.00512	-.00074	.00091
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2828/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.993	474.450	-.04100	-.00085	.00197	.14907	-.02082	.01796	.00871	-.00107	.00132
-15.036	500.070	-.03800	-.00088	-.00049	.08194	-.02092	.01509	.00658	-.00096	.00098
-15.032	549.970	-.03600	-.00105	-.00286	.00787	-.01682	.00858	.00884	-.00077	.00090
-15.036	600.150	-.03100	-.00071	-.00174	-.04389	-.00855	.00787	.00768	-.00098	.00075
-14.955	699.870	-.02000	-.00080	.01065	-.09328	.00839	.01346	.00610	-.00070	.00091
-14.999	799.190	-.01500	-.00075	.00123	-.12093	.01353	.01539	.00586	-.00065	.00086
-15.016	999.370	-.01400	-.00075	.00033	-.12127	.01373	.01491	.00591	-.00067	.00086
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2832/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.487	349.530	-.02300	-.00085	.00311	.03742	-.00528	.01525	.00735	-.00070	.00090
-10.524	399.890	-.02000	-.00082	-.00054	.00236	.00085	.01703	.00755	-.00094	.00048
-10.530	449.930	-.02300	-.00087	.00500	-.02136	-.00058	.01768	.00588	-.00090	.00072
-10.540	500.090	-.02100	-.00078	-.00104	-.05032	.00335	.01636	.00548	-.00077	.00082
-10.466	599.950	-.01600	-.00075	.00164	-.10036	.00884	.01519	.00617	-.00072	.00045
-10.495	699.130	-.01500	-.00070	-.00087	-.12047	.01341	.01526	.00598	-.00071	.00085
-10.510	799.450	-.01500	-.00070	.00419	-.12068	.01360	.01601	.00574	-.00070	.00084
-10.510	999.300	-.01400	-.00059	.00538	-.12086	.01362	.01569	.00594	-.00071	.00085
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK047) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2466/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.018	167.190	.00090	-.00083	.00345	.04396	.02197	.02851	-.00242	-.00032	.00075
-4.996	192.020	-.00650	-.00104	-.00364	.02671	.01591	.02654	-.00304	-.00020	.00066
-5.010	241.950	-.00640	-.00101	-.00573	-.02230	.01748	.02640	-.00332	-.00021	.00030
-5.027	292.360	-.00300	-.00113	-.00413	-.03750	.01647	.02533	-.00340	-.00012	.00009
-4.986	491.240	-.01640	-.00081	-.00512	-.04409	.00911	.02597	-.00209	-.00047	.00031
-4.992	591.450	-.01440	-.00078	-.00287	-.09357	.01016	.02484	-.00174	-.00051	.00029
-4.999	691.530	-.01400	-.00077	-.00378	-.10461	.01228	.02410	-.00206	-.00051	.00046
-5.000	791.470	-.01390	-.00075	-.00382	-.10725	.01359	.02628	-.00228	-.00051	.00084
-4.996	991.320	-.01400	-.00074	-.00307	-.10693	.01356	.02628	-.00211	-.00053	.00084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.022	11.797	.00093	-.00040	-.00386	-.07532	.02890	.03869	-.00272	-.00067	.00049
-.025	42.030	.00396	-.00071	.00107	-.04650	.03097	.03547	-.00232	-.00036	.00011
-.037	92.219	.00411	-.00039	.03033	-.03285	.03022	.03243	-.00270	-.00037	.00022
-.025	142.110	-.00136	-.00095	-.00717	-.05728	.02532	.02685	-.00249	-.00020	.00017
-.027	192.170	-.00476	-.00088	-.00095	-.05319	.02182	.02582	-.00290	-.00021	.00033
.026	391.350	-.01612	-.00085	.00579	-.05950	.01597	.02634	-.00264	-.00041	.00052
.006	491.420	-.01533	-.00097	-.00536	-.07642	.00922	.02380	-.00204	-.00048	.00037
.001	591.450	-.01308	-.00080	-.00345	-.10116	.01195	.02386	-.00169	-.00046	.00041
.001	791.410	-.01385	-.00079	-.00660	-.10811	.01396	.02601	-.00215	-.00049	.00082
.001	871.340	-.01385	-.00080	-.00506	-.10823	.01397	.02612	-.00191	-.00051	.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00083

RUN NO. 2472/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.006	-58.981	-.01150	-.00044	-.00414	-.12391	.01769	.03073	-.00355	-.00079	.00058
4.983	6.622	-.00170	-.00081	.00334	-.08399	.02683	.03474	-.00285	-.00033	.00036
4.960	42.136	.00050	-.00078	-.00553	-.07254	.02089	.03047	-.00243	-.00034	.00012
4.964	92.318	-.00160	-.00079	.03463	-.07912	.02009	.02837	-.00226	-.00035	.00016
4.976	191.940	-.00700	-.00108	-.00093	-.07141	.02006	.02611	-.00234	-.00015	.00034
5.009	291.320	-.01370	-.00099	.00095	-.05503	.01222	.02782	-.00207	-.00044	.00039
4.993	391.450	-.01520	-.00081	-.00118	-.10146	.01231	.02404	-.00184	-.00052	.00035
4.992	531.330	-.01380	-.00081	-.00617	-.10906	.01430	.02586	-.00180	-.00050	.00081
	GRADIENT	-.00026	-.00012	.00050	-.01268	.00405	.00525	-.00043	-.00005	.00005

REPRODUCIBILITY OF THE
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V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK047) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2824/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.041	625.750	200.20000	-.21663	.12014	-.04371	221.03000	.00000	.00000	652.90000	.00000	.00000
-20.056	700.520	200.38000	.23138	.05546	-.08035	220.62000	.00000	.00000	652.27000	.00000	.00000
-20.013	799.780	200.06000	.11562	.03161	-.08583	220.57000	.00000	.00000	651.55000	.00000	.00000
-20.014	999.580	199.88000	.24194	.05727	-.05932	204.44000	.00000	.00000	603.83000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2828/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-14.993	474.450	200.07000	.06282	.03978	-.13230	215.82000	.00000	.00000	635.74000	.00000	.00000
-15.035	500.070	200.15000	-.02573	.11823	.04034	215.41000	.00000	.00000	636.30000	.00000	.00000
-15.032	549.970	200.14000	-.42212	.02297	-.07930	215.80000	.00000	.00000	636.79000	.00000	.00000
-15.036	600.150	200.26000	.03851	.03015	-.04195	215.91000	.00000	.00000	637.76000	.00000	.00000
-14.955	698.870	199.92000	.38203	.04064	-.02078	216.73000	.00000	.00000	640.15000	.00000	.00000
-14.989	799.190	200.04000	-.11301	.04377	-.02896	218.10000	.00000	.00000	644.23000	.00000	.00000
-15.016	999.370	200.08000	-.07504	.04834	-.03830	219.44000	.00000	.00000	648.21000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2832/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.487	349.530	200.07000	.02193	-.01840	-.15656	218.33000	.00000	.00000	645.11000	.00000	.00000
-10.524	399.890	200.16000	-.48516	.06986	.01236	218.50000	.00000	.00000	645.41000	.00000	.00000
-10.530	449.930	200.09000	.17730	.01517	-.06030	217.83000	.00000	.00000	643.46000	.00000	.00000
-10.540	500.090	200.15000	-.15573	.02694	-.01530	217.73000	.00000	.00000	643.20000	.00000	.00000
-10.466	599.950	200.08000	-.23509	.02711	-.00592	218.34000	.00000	.00000	644.98000	.00000	.00000
-10.495	699.130	200.04000	-.20546	.02756	-.00948	217.93000	.00000	.00000	643.92000	.00000	.00000
-10.510	799.450	200.08000	.16231	.02872	-.01126	217.63000	.00000	.00000	643.00000	.00000	.00000
-10.510	999.300	199.87000	.26819	.02990	-.01287	217.63000	.00000	.00000	642.88000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK047) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2466/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.018	167.190	200.16000	.43897	.01203	-.04359	218.3[illegible]000	.00000	.00000	644.99000	.00000	.00000
-4.996	192.020	200.12000	-.[illegible]1314	-.00049	-.07145	218.3[illegible]000	.00000	.00000	644.94000	.00000	.00000
-5.010	241.950	200.10000	-.27727	-.00976	-.07785	218.3[illegible]000	.00000	.00000	645.10000	.00000	.00000
-5.027	292.360	200.13000	-.02116	-.00027	-.05931	218.2[illegible]000	.00000	.00000	644.65000	.00000	.00000
-5.017	392.260	200.[illegible]0000	-.07559	-.00085	-.03380	218.0[illegible]000	.00000	.00000	644.20000	.00000	.00000
-4.995	491.240	200.[illegible]0000	-.[illegible]3209	.01841	-.01516	218.1[illegible]000	.00000	.00000	644.34000	.00000	.00000
-4.992	591.450	200.1[illegible]000	.00407	.02333	-.01710	217.[illegible]3000	.00000	.00000	643.55000	.00000	.00000
-4.999	691.530	200.1[illegible]000	-.[illegible]0223	.02309	-.01397	218.1[illegible]000	.00000	.00000	644.25000	.00000	.00000
-5.000	791.470	200.21000	-.28379	.02340	-.01375	218.0[illegible]000	.00000	.00000	644.07000	.00000	.00000
-4.996	991.320	200.09000	.03490	.02406	-.01389	218.0[illegible]000	.00000	.00000	644.02000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.022	11.797	200.03000	-.14697	.01547	.00150	224.5[illegible]000	.00000	.00000	664.53000	.00000	.00000
-.025	42.030	200.03000	.18501	.02009	.00554	224.6[illegible]000	.00000	.00000	654.09000	.00000	.00000
-.037	92.219	200.03000	2.30220	.01582	-.00375	224.7[illegible]000	.00000	.00000	653.81000	.00000	.00000
-.025	142.110	200.10000	-.30038	.01053	-.02129	224.4[illegible]000	.00000	.00000	653.12000	.00000	.00000
-.027	192.170	200.11000	.08397	.01972	-.00254	224.3[illegible]000	.00000	.00000	652.00000	.00000	.00000
-.012	203.030	200.03000	.02221	-.00033	-.04043	223.[illegible]2000	.00000	.00000	651.54000	.00000	.00000
.026	391.330	200.11000	-.47451	.00349	-.03343	223.9[illegible]000	.00000	.00000	651.40000	.00000	.00000
.005	491.420	200.03000	-.20037	.02034	-.00248	223.8[illegible]000	.00000	.00000	651.23000	.00000	.00000
.001	591.450	200.01000	-.16423	.01976	-.00033	223.7[illegible]000	.00000	.00000	650.77000	.00000	.00000
.001	791.410	200.03000	-.25483	.02007	-.00057	223.5[illegible]000	.00000	.00000	650.30000	.00000	.00000
.001	871.340	200.[illegible]0000	-.16403	.02072	-.00344	223.4[illegible]000	.00000	.00000	650.12000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2472/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.006	-58.931	200.05000	-.10514	.01441	-.00533	229.7[illegible]000	.00000	.00000	678.53000	.00000	.00000
4.993	6.622	200.04000	.20537	.01461	.00572	229.[illegible]000	.00000	.00000	678.23000	.00000	.00000
4.980	42.135	200.01000	-.22230	.01273	.00031	229.[illegible]000	.00000	.00000	678.23000	.00000	.00000
4.984	92.318	200.03000	2.62070	.01808	.00110	229.6[illegible]000	.00000	.00000	678.21000	.00000	.00000
4.976	191.940	200.05000	.25948	.00970	-.01532	229.5[illegible]000	.00000	.00000	678.18000	.00000	.00000
5.009	291.320	200.10000	.20027	.00055	-.03169	229.3[illegible]000	.00000	.00000	677.51000	.00000	.00000
4.993	391.450	200.13000	.02462	.01620	.00113	229.1[illegible]000	.00000	.00000	676.87000	.00000	.00000
4.992	531.330	200.15000	-.30023	.01905	-.00441	229.1[illegible]000	.00000	.00000	676.92000	.00000	.00000
	GRADIENT	30.20931	.04461	.00221	.00056	34.6[illegible]486	.00000	.00000	102.42391	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2824/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.041	625.750	982.33000	982.33000	85.00000	982.33000	916.21999	87.00000	77.00000	17.12200	99.54200
-20.056	700.520	981.39000	981.39000	85.00000	981.39000	916.21999	87.00000	77.00000	5.64560	99.64200
-20.013	799.780	979.83000	979.83000	85.00000	979.83000	916.21999	87.00000	77.00000	1.68400	99.64200
-20.014	909.580	906.40000	906.40000	85.00000	906.40000	916.21999	87.00000	77.00000	12.93200	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2828/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-14.993	474.450	964.03000	964.03000	83.00000	964.03000	901.78000	85.00000	78.00000	11.49100	99.64200
-15.035	500.070	964.03000	964.03000	83.00000	964.03000	901.78000	85.00000	78.00000	5.43430	99.64200
-15.032	549.970	965.62000	965.62000	83.00000	965.62000	901.78000	85.00000	78.00000	-.00403	99.64200
-15.036	600.150	967.10000	967.10000	83.00000	967.10000	901.78000	85.00000	78.00000	-.77908	99.64200
-14.955	698.870	970.24000	970.24000	83.00000	970.24000	901.78000	85.00000	78.00000	-.12917	99.64200
-14.989	799.190	976.43000	976.43000	83.00000	976.43000	901.78000	85.00000	78.00000	1.34570	99.64200
-15.016	959.370	981.97000	981.97000	83.00000	981.97000	901.78000	85.00000	78.00000	4.07160	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2832/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.487	349.530	972.05000	972.05000	83.00000	972.05000	901.31000	85.00000	78.00000	1.84870	99.76800
-10.524	399.890	972.02000	972.02000	83.00000	972.02000	901.31000	85.00000	78.00000	-2.42600	99.76800
-10.530	449.930	971.93000	971.93000	83.00000	971.93000	901.31000	85.00000	78.00000	-4.10620	99.76800
-10.540	500.090	972.02000	972.02000	83.00000	972.02000	901.31000	85.00000	78.00000	-5.28470	99.76800
-10.466	598.950	971.81000	971.81000	83.00000	971.81000	901.31000	85.00000	78.00000	-4.69510	99.76800
-10.495	699.130	971.68000	971.68000	83.00000	971.68000	901.31000	85.00000	78.00000	-4.26520	99.76800
-10.510	799.450	971.71000	971.71000	83.00000	971.71000	901.31000	85.00000	78.00000	-3.92790	99.76800
-10.510	999.300	971.50000	971.50000	83.00000	971.50000	901.31000	85.00000	78.00000	-3.36590	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) T/ET SEPARATING (UVK047) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2466/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.018	167.190	973.80000	973.80000	81.00000	973.80000	971.17000	67.00000	7[illegible].00000	-.90324	99.76800
-4.996	192.020	973.72000	973.72000	81.00000	973.72000	971.17000	67.00000	74.00000	-1.43120	99.76800
-5.010	241.950	973.49000	973.49000	81.00000	973.49000	971.17000	67.00000	74.00000	-3.85950	99.76800
-5.027	292.360	973.29000	973.29000	81.00000	973.29000	971.17000	67.00000	74.00000	-6.26850	99.76800
-5.017	392.260	973.08000	973.08000	81.00000	973.08000	971.17000	67.00000	74.00000	-6.26670	99.76800
-4.966	491.240	972.62000	972.82000	81.00000	972.82000	971.17000	67.00000	74.00000	-6.76000	99.76800
-4.992	591.450	972.09000	972.09000	81.00000	972.09000	971.17000	67.00000	74.00000	-7.47830	99.76800
-4.999	691.530	971.72000	971.72000	81.00000	971.72000	971.17000	67.00000	74.00000	-6.75250	99.76800
-5.000	791.470	971.46000	971.46000	81.00000	971.46000	971.17000	67.00000	74.00000	-6.00450	99.76800
-4.996	991.320	971.38000	971.38000	81.00000	971.38000	971.17000	67.00000	74.00000	-5.06250	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.022	11.797	973.92000	973.92000	80.00000	973.92000	973.99000	66.00000	74.00000	-6.07500	99.64200
-.025	42.030	973.88000	973.88000	80.00000	973.88000	973.99000	66.00000	74.00000	-5.74210	99.64200
-.037	92.219	973.76000	973.76000	80.00000	973.76000	973.99000	66.00000	74.00000	-5.69910	99.64200
-.025	142.110	973.74000	973.74000	80.00000	973.74000	973.99000	66.00000	74.00000	-6.93270	99.64200
-.027	192.170	973.76000	973.76000	80.00000	973.76000	973.99000	66.00000	74.00000	-7.35540	99.64200
-.012	292.060	973.88000	973.88000	80.00000	973.88000	973.99000	66.00000	74.00000	-8.43400	99.64200
.026	391.360	973.77000	973.77000	80.00000	973.77000	973.99000	66.00000	74.00000	-8.48770	99.64200
.006	491.420	973.93000	973.98000	80.00000	973.93000	973.99000	66.00000	74.00000	-8.85930	99.64200
.001	591.450	974.19000	974.19000	80.00000	974.19000	973.99000	66.00000	74.00000	-8.64130	99.64200
.001	791.410	973.99000	973.98000	80.00000	973.99000	973.99000	66.00000	74.00000	-8.17650	99.64200
.001	871.340	974.20000	974.20000	80.00000	974.20000	973.99000	66.00000	74.00000	-7.85520	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2472/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.006	-58.981	973.38000	973.38000	79.00000	973.38000	973.37000	65.00000	74.00000	-7.40810	99.64200
4.983	6.622	973.37000	973.37000	79.00000	973.37000	973.37000	65.00000	74.00000	-6.49950	99.64200
4.980	42.136	973.37000	973.37000	79.00000	973.37000	973.37000	65.00000	74.00000	-6.51320	99.64200
4.984	92.318	973.34000	973.34000	79.00000	973.34000	973.37000	65.00000	74.00000	-7.03540	99.64200
4.976	191.940	973.30000	973.30000	79.00000	973.30000	973.37000	65.00000	74.00000	-7.88320	99.64200
5.009	291.320	973.34000	973.34000	79.00000	973.34000	973.37000	65.00000	74.00000	-8.31290	99.64200
4.993	391.450	973.42000	973.42000	79.00000	973.42000	973.37000	65.00000	74.00000	-8.71630	99.64200
4.992	531.330	973.58000	973.58000	79.00000	973.58000	973.37000	65.00000	74.00000	-9.06420	99.64200
	GRADIENT	146.99477	146.99477	11.93029	146.99477	146.99477	9.81606	11.17521	-.98153	15.04757

V41B-09A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK047) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2824/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.041	625.750	200.20000	-.21663	-20.09000	-.00486	- 41788	-.01661	.01692	.00035	.00036	.11478
-20.056	700.520	200.38000	.23138	-20.10100	.00116	- 43304	-.00024	.01730	-.00091	.00043	.13503
-20.013	799.780	200.06000	.11562	-20.06200	.00238	- 45165	.02395	.01805	-.00264	.00067	.16097
-20.014	999.580	199.93000	.24194	-20.02800	.00403	- 33356	-.04179	.01279	.00074	.00011	.12068
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2828/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.983	474.450	200.07000	.06282	-15.02400	.00112	- 32758	-.00545	.01291	.00071	.00037	.11305
-15.036	500.070	200.15000	-.02573	-15.07200	-.00137	- 29459	-.02161	.01249	.00068	.00016	.10740
-15.032	549.970	200.14000	-.42212	-15.03800	-.00371	- 29397	-.01535	.01329	.00006	.00015	.11436
-15.036	600.150	200.23000	.03051	-15.06700	-.00245	- 30333	-.00247	.01275	-.00015	.00017	.12314
-14.935	699.870	199.92000	.32203	-14.97500	.00505	- 31267	.01197	.01394	-.00144	.00032	.14193
-14.939	799.190	200.04000	-.11301	-15.00400	.00048	- 25097	-.02025	.01019	.00055	-.00000	.11656
-15.016	999.370	200.08000	-.07504	-15.03000	-.00012	- 21705	-.03684	.00931	.00126	-.00003	.10899
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2832/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.487	349.530	200.07000	.02183	-10.51000	.00215	- 24435	-.00026	.01025	.00006	.00001	.11461
-10.524	399.030	200.10000	-.48313	-10.54400	-.00035	- 21123	-.01530	.00975	.00058	-.00007	.10292
-10.530	449.930	200.09000	.27730	-10.55200	.00433	- 20934	-.01134	.01067	.00015	-.00003	.10588
-10.540	500.090	200.15000	-.15573	-10.56100	-.00181	- 21530	-.00245	.01123	-.00000	-.00005	.11180
-10.466	598.950	200.08000	-.23609	-10.48400	.00089	- 21352	.00792	.01111	-.00053	.00005	.12534
-10.495	699.130	200.04000	-.20546	-10.51000	-.00157	- 16019	-.01907	.00852	.00094	-.00014	.10499
-10.510	799.450	200.03000	.16231	-10.52500	.00349	- 13809	-.03114	.00778	.00122	-.00021	.09997
-10.510	999.300	199.87000	.28919	-10.52400	.00469	- 13790	-.03099	.00770	.00128	-.00021	.10219
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK047) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2466/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.018	167.190	200.16000	.43997	-5.01690	.00262	-.16081	-.00141	.00744	-.00018	.00033	.10110
-4.998	192.020	200.12000	-.11314	-5.00130	-.00488	-.15500	.00236	.00597	-.00010	.00027	.10373
-5.010	241.950	200.10000	-.27727	-5.01670	-.00375	-.12534	-.00519	.00324	.00034	.00000	.09510
-5.027	292.360	200.13000	-.02116	-5.03460	-.00526	-.12113	-.00353	.00392	.00054	.00002	.09478
-5.017	392.260	200.06000	-.07339	-5.03240	-.00553	-.12012	.00498	.00503	-.00014	.00005	.09249
-4.956	491.240	200.06000	-.05209	-4.98290	-.00239	-.11341	.01085	.00590	-.00050	.00011	.10740
-4.992	591.450	200.18000	.00407	-5.00640	-.00365	-.07241	-.00598	.00471	.00059	.00002	.09226
-4.999	691.530	200.18000	-.08639	-5.01340	-.00455	-.05151	-.01544	.00438	.00079	-.00007	.08979
-5.000	791.470	200.21000	-.23079	-5.01300	-.00737	-.06163	-.01539	.00462	.00080	-.00008	.09171
-4.996	991.320	200.08000	.03490	-5.01040	-.00391	-.06143	-.01537	.00456	.00079	-.00007	.09309
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2469/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.022	11.797	200.03000	-.14697	-.02141	-.00426	-.06346	-.01516	.00652	-.00032	.00018	.09125
-.025	42.030	200.03000	.18301	-.02036	.00037	-.07215	-.00776	.00764	-.00020	.00017	.09442
-.037	92.219	200.09000	2.35320	-.03319	.02253	-.05539	-.00241	.00555	.00057	.00002	.08974
-.025	142.110	200.10000	-.30035	-.02623	-.00812	-.05028	.00212	.00617	.00009	.00002	.03919
-.027	192.170	200.11000	.05397	-.03141	-.00194	-.05462	.00912	.00412	.00005	-.00003	.09339
-.012	292.060	200.05000	.65221	-.02230	.00494	-.05418	.01776	.00382	.00044	-.00001	.09235
.026	391.350	200.11000	-.47461	.01035	-.00542	-.04318	01971	.00591	-.00025	.00005	.10363
.006	491.420	200.05000	-.26357	-.00508	-.00732	-.01151	.00350	.00493	.00032	-.00010	.08958
.001	591.450	200.01000	-.18426	-.01332	-.00597	-.00539	.00087	.00386	.00042	-.00008	.08362
.001	791.410	200.05000	-.29483	-.01329	-.00739	-.00520	.00082	.00399	.00044	-.00008	.09036
.001	871.340	200.06000	-.16483	-.01320	-.00536	-.00500	.00056	.00393	.00049	-.00008	.09109
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2472/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.006	-58.981	200.09000	-.10514	4.99420	-.00458	.02157	.00378	.00863	-.00052	-.00005	.08476
4.983	6.622	200.04000	.29537	4.98080	.00252	.00293	.00523	.00564	-.00005	-.00000	.08612
4.980	42.135	200.01000	-.22090	4.98070	-.00733	-.00030	.01054	.00544	.00045	.00002	.08527
4.994	92.318	200.03000	2.62070	4.98340	.03703	-.00093	.02127	.00600	.00006	-.00003	.08309
4.976	191.940	200.00000	.25048	4.97130	-.00207	.00897	.03249	.00534	-.00079	-.00007	.08309
5.009	291.320	200.10000	.20927	4.99310	.00005	.01971	.03249	.00536	-.00123	-.00001	.10027
4.993	391.450	200.13000	.02462	4.97810	-.00200	.04484	.01909	.00371	-.00018	-.00010	.08928
4.992	531.330	200.15000	-.30623	4.97660	-.00699	.04942	.01759	.00320	.00017	-.00010	.08599
	GRADIENT	30.20931	.04461	.75220	.00038	.00044	.00079	.00085	-.00001	-.00000	.01301

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK048) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2825/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-20.047	625.430	400.14000	.05071	.00176	.29245	-.06698	.00036	-.00042	.00081	-.03624	.18933
-19.993	699.310	399.83000	.20058	.00663	.21372	-.04247	-.00149	-.00057	.00019	-.02891	.18905
-19.969	798.810	399.73000	-.05338	.00419	.17774	-.03415	-.00266	-.00038	.00026	-.02191	.19109
-20.064	999.830	400.21000	.19134	.00047	.15692	-.02827	-.00269	-.00050	.00058	-.01977	.19082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2829/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-15.058	475.170	400.15000	.37810	.00779	.27930	-.05339	-.00153	-.00048	.00061	-.02329	.18586
-15.027	499.730	400.13000	-.51975	-.00578	.24148	-.04875	-.00120	-.00065	.00045	-.02117	.18555
-15.007	549.410	400.03000	.83088	.01498	.18710	-.03890	-.00224	-.00055	.00030	-.02116	.18562
-14.990	599.260	399.93000	.16943	.00475	.17097	-.03412	-.00211	-.00053	.00010	-.01914	.18597
-14.973	693.650	399.82000	.25319	.00557	.15339	-.02825	-.00284	-.00047	.00060	-.01796	.18691
-15.018	799.330	400.00000	.05092	.00222	.15215	-.02774	-.00297	-.00048	.00061	-.01760	.18839
-15.060	1000.000	400.30000	.12644	.00029	.15245	-.02773	-.00255	-.00050	.00059	-.01767	.18809
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2833/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-10.508	349.650	399.96000	.22104	.00055	.29553	-.04518	-.00179	-.00063	.00028	-.01536	.18802
-10.557	399.860	400.04000	.18693	-.00226	.24832	-.04272	-.00144	-.00072	.00065	-.01669	.18765
-10.509	449.300	400.16000	-.11631	.00098	.20188	-.03731	-.00212	-.00063	.00057	-.01746	.18795
-10.492	499.080	400.03000	.35702	.00352	.17351	-.03420	-.00232	-.00061	.00033	-.01859	.18730
-10.482	599.830	399.92000	-.07391	.00198	.16068	-.02990	-.00277	-.00049	.00049	-.01832	.18718
-10.514	699.130	399.99000	.70377	.01217	.15539	-.02810	-.00279	-.00054	.00057	-.01757	.18739
-10.550	799.660	400.16000	-.10479	-.00212	.15558	-.02820	-.00254	-.00053	.00058	-.01772	.18750
-10.519	999.290	400.07000	-.03118	.00100	.15570	-.02816	-.00268	-.00055	.00058	-.01768	.18762
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (RVK048) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2467/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.004	167.080	400.05000	.22510	-.00234	.29151	-.01922	-.01262	.00004	.00029	-.00510	.18939
-4.980	191.120	400.04000	1.82620	.02536	.28550	-.02225	-.01253	.00002	.00022	-.00522	.18879
-4.982	241.050	400.04000	-.13747	-.00289	.25919	-.02760	-.01193	-.00002	-.00005	-.00682	.16948
-5.006	291.470	400.03000	.10023	-.00265	.24333	-.03093	-.01115	-.00020	-.00003	-.00533	.18840
-4.978	390.920	400.11000	-.13021	-.00657	.20512	-.03357	-.01093	-.00032	.00011	-.00763	.18855
-4.973	490.920	400.05000	-.39750	-.00310	.17846	-.03093	-.01072	-.00032	.00006	-.00566	.18865
-4.995	591.330	400.19000	1.78400	.02283	.17061	-.02232	-.01101	-.00034	.00057	-.00763	.16872
-5.026	691.800	400.13000	.70353	.00539	.17100	-.02224	-.01105	-.00035	.00057	-.00765	.18905
-5.008	791.420	400.15000	.25019	.00030	.17093	-.02324	-.01089	-.00034	.00057	-.00770	.18944
-5.002	991.330	400.13000	.00229	-.00327	.17137	-.02832	-.01098	-.00034	.00059	-.00764	.18930
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2470/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-.065	13.334	400.04000	-.28959	-.00505	.26387	-.00175	-.01191	-.00045	.00008	.00028	.18931
.031	40.678	400.03000	-.87922	-.01274	.26492	-.00500	-.01179	-.00012	-.00013	-.00336	.18903
.041	90.433	400.06000	-.13553	-.00424	.26503	-.01643	-.01221	.00002	.00006	-.00658	.18880
.009	141.030	400.04000	-.40005	-.00600	.24428	-.02100	-.01189	-.00002	-.00011	-.00729	.18903
-.006	191.280	400.08000	-.01482	-.00277	.23282	-.02482	-.01213	.00004	.00000	-.00949	.18927
.016	290.690	400.10000	.00348	-.00503	.22555	-.03244	-.01099	-.00031	.00015	-.00657	.18920
.024	390.930	400.14000	-.12291	-.00516	.18330	-.03155	-.01064	-.00035	.00005	-.01040	.18934
.003	491.230	400.11000	-.18395	-.00502	.17928	-.02937	-.01084	-.00035	.00037	-.01011	.18892
-.015	591.590	400.21000	-.29785	-.00652	.17673	-.02833	-.01100	-.00034	.00055	-.00946	.18899
.006	791.200	400.10000	-.26231	-.00674	.17718	-.02289	-.01103	-.00033	.00056	-.00854	.18909
.002	871.320	400.19000	-.46821	-.00939	.17700	-.02288	-.01080	-.00034	.00055	-.00851	.18913
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2473/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.913	-56.004	399.93000	.69418	.00470	.23354	-.00467	-.01125	-.00085	.00013	-.00154	.18952
5.043	5.172	400.27000	-2.04060	-.02308	.23974	-.01150	-.01193	-.00009	-.00017	-.00510	.18882
5.004	41.058	400.18000	.09125	-.00156	.23058	-.01774	-.01173	-.00004	-.00016	-.00812	.18941
4.998	91.017	400.10000	-.24442	-.00720	.22087	-.02173	-.01168	-.00008	-.00018	-.00944	.18906
5.025	190.610	400.21000	1.15510	.01332	.22406	-.02833	-.01142	-.00029	.00030	-.00281	.18934
5.014	290.610	400.21000	.33209	.00277	.20355	-.03303	-.01130	-.00028	.00012	-.00983	.18948
4.985	391.360	400.10000	-.02473	-.00308	.18369	-.03085	-.01100	-.00028	.00014	-.01021	.18934
4.978	531.360	400.16000	.10787	-.00256	.17458	-.02872	-.01094	-.00034	.00057	-.00731	.18934
	GRADIENT	77.39322	-.39456	-.00562	.04635	-.00222	-.00231	-.00002	-.00003	-.00099	.03651

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK048) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UNBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2825/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.047	625.430	-.04300	-.00140	.00176	.01280	-.02478	-.00240	.00923	-.00059	.00107
-19.983	699.310	-.02500	-.00089	.00233	-.03503	-.00024	.00454	.00738	-.00073	.00045
-19.939	793.810	-.01500	-.00097	.00419	-.05078	.00758	.01155	.00510	-.00054	.00052
-20.064	999.830	-.01400	-.00076	.00047	-.12170	.01377	.01395	.00325	-.00057	.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2829/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.058	475.170	-.02200	-.00110	.00779	.00302	-.01245	.00953	.00707	-.00064	.00087
-15.027	499.730	-.03000	-.00086	-.00378	-.02223	-.00704	.01164	.00740	-.00081	.00070
-15.007	549.410	-.02300	-.00093	.01493	-.05428	.00206	.01169	.00537	-.00071	.00056
-14.990	599.260	-.02000	-.00090	.00475	-.10043	.00592	.01389	.00349	-.00059	.00035
-14.973	698.650	-.01500	-.00077	.00357	-.11814	.01273	.01469	.00557	-.00063	.00085
-15.018	799.330	-.01500	-.00076	.00302	-.12011	.01355	.01535	.00557	-.00064	.00086
-15.080	1000.000	-.01500	-.00074	.00028	-.12040	.01345	.01534	.00570	-.00065	.00095
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2833/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.508	349.650	-.02400	-.00002	.00235	.01976	-.00355	.01901	.00895	-.00080	.00054
-10.557	399.860	-.02300	-.00071	-.00236	-.02731	-.00108	.01670	.00731	-.00089	.00111
-10.509	449.300	-.02100	-.00074	.00003	-.07417	.00335	.01594	.00553	-.00079	.00083
-10.492	499.080	-.01500	-.00072	.00282	-.10235	.00752	.01487	.00345	-.00077	.00059
-10.482	598.830	-.01500	-.00078	.00198	-.11557	.01181	.01512	.00389	-.00036	.00075
-10.514	699.130	-.01400	-.00071	.01247	-.12113	.01333	.01509	.00308	-.00070	.00084
-10.550	799.030	-.01500	-.00072	-.00312	-.12195	.01389	.01503	.00326	-.00070	.00084
-10.519	999.290	-.01500	-.00070	.00100	-.12168	.01370	.01598	.00611	-.00072	.00084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (SVK048) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2467/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.004	167.080	-.00010	-.00102	-.00234	.01578	.02239	.02826	-.00387	-.00013	.00055
-4.980	191.120	-.00320	-.00104	.02536	.00967	.01937	.02815	-.00378	-.00015	.00048
-4.982	241.050	-.00930	-.00109	-.00288	-.01657	.01401	.02655	-.00319	-.00018	.00021
-5.006	291.470	-.01310	-.00094	-.00265	-.03222	.01056	.02801	-.00241	-.00037	.00023
-4.978	390.920	-.01740	-.00087	-.00607	-.07077	.00907	.02576	-.00208	-.00048	.00037
-4.973	490.920	-.01600	-.00084	-.00510	-.09842	.01092	.02364	-.00194	-.00048	.00032
-4.995	591.330	-.01400	-.00078	.02203	-.10695	.01357	.02596	-.00221	-.00051	.00083
-5.026	691.800	-.01390	-.00076	.00359	-.10745	.01378	.02604	-.00222	-.00052	.00084
-5.008	791.420	-.01390	-.00078	.00090	-.10754	.01377	.02599	-.00207	-.00050	.00084
-5.002	991.330	-.01390	-.00078	-.00327	-.10742	.01376	.02610	-.00214	-.00050	.00084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2470/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.065	13.334	.01752	-.00023	-.00205	-.01999	.04458	.03462	-.00291	-.00062	.00035
.031	40.678	.01154	-.00067	-.01274	-.01693	.03793	.03099	-.00279	-.00029	.00013
.041	90.433	.00088	-.00088	-.00424	-.02690	.02642	.02778	-.00321	-.00014	.00033
.009	141.030	-.00450	-.00102	-.00600	-.03944	.02092	.02704	-.00289	-.00019	.00015
-.006	191.280	-.00764	-.00112	-.00277	-.05144	.01804	.02489	-.00312	-.00013	.00027
.016	290.630	-.01459	-.00095	-.00503	-.05458	.01044	.02771	-.00188	-.00048	.00042
.024	390.930	-.01570	-.00082	-.00516	-.05879	.01146	.02410	-.00160	-.00052	.00032
.003	491.230	-.01405	-.00079	-.00502	-.10508	.01359	.02442	-.00179	-.00052	.00064
-.015	591.580	-.01370	-.00079	-.00682	-.10849	.01421	.02606	-.00195	-.00051	.00082
.006	791.200	-.01372	-.00000	-.00674	-.10839	.01420	.02301	-.00198	-.00050	.00083
.002	871.320	-.01372	-.00079	-.00939	-.10651	.01421	.02604	-.00175	-.00051	.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2473/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.913	-56.004	.01020	.00008	.00470	-.05572	.03315	.03359	-.00204	-.00103	.00041
5.043	5.172	.00450	-.00091	-.02903	-.08009	.03235	.03007	-.00271	-.00026	.00010
5.004	41.058	-.00130	-.00094	-.00156	-.08018	.03614	.02705	-.00231	-.00022	.00011
4.993	91.017	-.00820	-.00095	-.00720	-.08959	.02216	.02576	-.00226	-.00025	.00009
5.025	190.610	-.00950	-.00081	.01332	-.08641	.01703	.02644	-.00218	-.00046	.00058
5.014	290.610	-.01550	-.00089	.00277	-.08448	.01104	.02539	-.00207	-.00046	.00040
4.985	391.350	-.01510	-.00089	-.00333	-.10228	.01239	.02447	-.00192	-.00045	.00041
4.978	531.360	-.01390	-.00079	-.00266	-.10305	.01408	.02701	-.00195	-.00051	.00083
	GRADIENT	.00087	-.00016	-.00562	-.00954	.00626	.00581	-.00052	-.00005	.00002

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2825/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.047	625.430	400.14000	.05071	.09664	-.10249	221.5[illegible]000	.00000	.00000	654.51000	.00000	.00000
-19.993	699.310	399.83000	.20058	.06651	-.10707	221.7[illegible]000	.00000	.00000	654.87000	.00000	.00000
-19.969	798.810	399.73000	-.05338	.06844	-.06899	219.1[illegible]000	.00000	.00000	647.18000	.00000	.00000
-20.064	999.830	400.21000	.19134	.06407	-.08493	220.7[illegible]000	.00000	.00000	652.10000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2829/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.058	475.170	400.15000	.37819	.11926	.00407	214.9[illegible]000	.00000	.00000	634.91000	.00000	.00000
-15.027	499.720	400.13000	-.51975	.04955	-.09509	214.7[illegible]000	.00000	.00000	634.41000	.00000	.00000
-15.007	549.410	400.03000	.83088	.06955	-.03902	215.0[illegible]000	.00000	.00000	635.14000	.00000	.00000
-14.980	599.260	399.93000	.18843	.05557	-.06821	214.9[illegible]000	.00000	.00000	634.92000	.00000	.00000
-14.973	699.650	399.82000	.25319	.05702	-.07089	215.1[illegible]000	.00000	.00000	635.51000	.00000	.00000
-15.018	799.330	400.00000	.06932	.05350	-.05428	215.7[illegible]000	.00000	.00000	637.22000	.00000	.00000
-15.080	1000.000	400.30000	.12844	.04653	-.05064	216.1[illegible]000	.00000	.00000	638.58000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2833/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.508	349.650	399.95000	.22104	.05937	-.07954	218.5[illegible]000	.00000	.00000	645.44000	.00000	.00000
-10.557	399.850	400.04000	.18593	.05633	-.07545	218.6[illegible]000	.00000	.00000	645.82000	.00000	.00000
-10.509	449.300	400.15000	-.11681	.04419	-.08481	218.7[illegible]000	.00000	.00000	646.05000	.00000	.00000
-10.492	499.080	400.03000	.35702	.06107	-.03718	219.0[illegible]000	.00000	.00000	647.05000	.00000	.00000
-10.482	598.830	399.92000	-.07391	.04897	-.05178	218.9[illegible]000	.00000	.00000	646.80000	.00000	.00000
-10.514	699.130	399.99000	.70377	.04351	-.04085	219.1[illegible]000	.00000	.00000	647.20000	.00000	.00000
-10.550	799.650	400.16000	-.10479	.03942	-.03189	219.9[illegible]000	.00000	.00000	649.56000	.00000	.00000
-10.519	999.290	400.07000	-.03118	.03561	-.02474	219.7[illegible]000	.00000	.00000	649.21000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.0[illegible]000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK048) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2467/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.004	167.080	400.05000	.22510	.00542	-.04581	218.47000	.00000	.00000	645.34000	.00000	.00000
-4.980	191.120	400.04000	1.82620	.00102	-.06398	218.55000	.00000	.00000	645.57000	.00000	.00000
-4.982	241.050	400.04000	-.13747	-.01146	-.10486	218.50000	.00000	.00000	645.43000	.00000	.00000
-5.006	291.470	400.09000	.10023	.01326	-.08691	218.33000	.00000	.00000	644.92000	.00000	.00000
-4.978	390.920	400.11000	-.13021	.01719	-.05446	218.60000	.00000	.00000	645.72000	.00000	.00000
-4.973	490.920	400.05000	-.39750	.03343	-.02079	219.38000	.00000	.00000	648.03000	.00000	.00000
-4.995	591.330	400.19000	1.78400	.03142	-.02156	219.88000	.00000	.00000	649.63000	.00000	.00000
-5.026	691.800	400.13000	.70363	.02975	-.01582	221.63000	.00000	.00000	651.72000	.00000	.00000
-5.008	791.420	400.15000	.25019	.02897	-.01645	221.58300	.00000	.00000	651.51000	.00000	.00000
-5.002	991.330	400.13000	.00228	.02547	-.01653	221.63000	.00000	.00000	652.50000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2470/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.065	13.334	400.04000	-.22859	.01198	-.00443	221.91000	.00000	.00000	664.36000	.00000	.00000
.031	40.678	400.03000	-.87022	.00030	-.01535	221.91000	.00000	.00000	664.25000	.00000	.00000
.041	90.433	400.08000	-.13353	.00005	-.02005	221.97000	.00000	.00000	664.54000	.00000	.00000
.009	141.030	400.04000	-.40003	-.00390	-.04497	221.80000	.00000	.00000	664.04000	.00000	.00000
-.006	191.280	400.06000	-.01482	.01533	-.01373	222.07000	.00000	.00000	664.84000	.00000	.00000
.016	290.680	400.10000	.00348	-.00023	-.04546	221.13000	.00000	.00000	665.00000	.00000	.00000
.024	390.930	400.14000	-.12291	.02370	.00520	221.90000	.00000	.00000	667.27000	.00000	.00000
.003	491.230	400.11000	-.18388	.02180	-.00006	221.11000	.00000	.00000	667.90000	.00000	.00000
-.015	591.580	400.21000	-.29785	.02070	-.00506	221.00000	.00000	.00000	667.56000	.00000	.00000
.006	791.200	400.10000	-.26231	.01933	-.00529	221.23000	.00000	.00000	669.34000	.00000	.00000
.002	871.320	400.19000	-.46221	.01875	-.00515	221.23000	.00000	.00000	669.25000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2473/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.913	-56.004	399.99000	.69418	-.00124	-.01761	231.07000	.00000	.00000	679.59000	.00000	.00000
5.043	5.172	400.27000	-2.04060	.01577	.00108	231.23000	.00000	.00000	680.22000	.00000	.00000
5.004	41.053	400.12000	.09125	.01201	-.00676	231.33000	.00000	.00000	680.53000	.00000	.00000
4.993	91.017	400.10000	-.24442	.00969	-.01741	231.47000	.00000	.00000	680.77000	.00000	.00000
5.025	190.610	400.21000	1.15510	-.00049	-.03345	231.79000	.00000	.00000	681.74000	.00000	.00000
5.014	290.610	400.21000	.33209	.00302	-.02225	231.60000	.00000	.00000	681.17000	.00000	.00000
4.985	391.350	400.10000	-.02473	.01993	-.00441	227.68000	.00000	.00000	670.70000	.00000	.00000
4.978	531.360	400.16000	.10787	.01885	-.00364	224.73000	.00000	.00000	663.83000	.00000	.00000
	GRADIENT	77.39322	-.39456	.00305	.00021	44.52522	.00000	.00000	131.52226	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC:) W/ET SEPARATING (UVK048) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMRLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2825/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.047	625.430	982.83000	982.83000	84.00000	982.83000	982.64999	87.00000	77.00000	25.53900	99.64200
-19.993	699.310	982.83000	982.83000	84.00000	982.83000	982.64999	87.00000	77.00000	21.90500	99.64200
-19.969	799.810	971.83000	971.83000	84.00000	971.83000	982.64999	87.00000	77.00000	15.07200	99.64200
-20.064	999.830	979.22000	979.22000	84.00000	979.22000	982.64999	87.00000	77.00000	7.27830	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2829/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.058	475.170	983.24000	983.24000	83.00000	983.24000	983.05000	85.00000	78.00000	20.08800	99.64200
-15.027	499.730	983.42000	983.42000	83.00000	983.42000	983.05000	85.00000	78.00000	17.71300	99.64200
-15.007	549.410	983.52000	983.52000	83.00000	983.52000	983.05000	85.00000	78.00000	14.00800	99.64200
-14.990	599.260	983.79000	983.79000	83.00000	983.79000	983.05000	85.00000	78.00000	9.43470	99.64200
-14.973	699.630	984.62000	984.62000	83.00000	984.62000	983.05000	85.00000	78.00000	3.83820	99.64200
-15.018	799.330	967.21000	967.21000	83.00000	967.21000	983.05000	85.00000	78.00000	-.34211	99.64200
-15.080	1000.000	970.22000	970.22000	83.00000	970.22000	983.05000	85.00000	78.00000	-2.44890	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2833/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.508	349.650	972.07000	972.07000	82.00000	972.07000	971.88000	85.00000	78.00000	15.92800	99.64200
-10.557	399.530	972.17000	972.17000	82.00000	972.17000	971.88000	85.00000	78.00000	16.35100	99.64200
-10.509	449.300	972.10000	972.10000	82.00000	972.10000	971.88000	85.00000	78.00000	13.27600	99.64200
-10.492	499.080	972.11000	972.11000	82.00000	972.11000	971.88000	85.00000	78.00000	10.11100	99.64200
-10.482	598.830	972.21000	972.21000	82.00000	972.21000	971.88000	85.00000	78.00000	4.16840	99.64200
-10.514	699.130	972.33000	972.33000	82.00000	972.33000	971.88000	85.00000	78.00000	2.37370	99.64200
-10.550	799.650	972.52000	972.52000	82.00000	972.52000	971.88000	85.00000	78.00000	1.07570	99.64200
-10.519	999.290	972.47000	972.47000	82.00000	972.47000	971.88000	85.00000	78.00000	-.47602	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (UVK048) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	.000		

RUN NO. 2467/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.004	167.080	974.32000	974.32000	81.00000	974.32000	974.10000	67.00000	74.00000	-1.22330	99.76800
-4.980	191.120	974.19000	974.19000	81.00000	974.19000	974.10000	67.00000	74.00000	-1.53990	99.76800
-4.982	241.050	974.46000	974.46000	81.00000	974.46000	974.10000	67.00000	74.00000	.14579	99.76800
-5.006	291.470	973.69000	973.69000	81.00000	973.69000	974.10000	67.00000	74.00000	2.95570	99.76800
-4.978	390.920	973.46000	973.46000	81.00000	973.46000	974.10000	67.00000	74.00000	2.87070	99.76800
-4.973	490.920	973.60000	973.60000	81.00000	973.60000	974.10000	67.00000	74.00000	2.06930	99.76800
-4.995	591.330	973.60000	973.60000	81.00000	973.60000	974.10000	67.00000	74.00000	-.13730	99.76800
-5.026	691.800	973.84000	973.84000	81.00000	973.84000	974.10000	67.00000	74.00000	-1.95040	99.76800
-5.008	791.420	974.02000	974.02000	81.00000	974.02000	974.10000	67.00000	74.00000	-3.35510	99.76800
-5.002	991.330	974.04000	974.04000	81.00000	974.04000	974.10000	67.00000	74.00000	-5.05070	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2470/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.065	13.334	973.59000	973.59000	80.00000	973.59000	973.38000	66.00000	74.00000	-7.19860	99.64200
.031	40.678	973.59000	973.59000	80.00000	973.59000	973.38000	66.00000	74.00000	-8.05980	99.64200
.041	90.433	973.38000	973.38000	80.00000	973.38000	973.38000	66.00000	74.00000	-8.90570	99.64200
.009	141.030	973.12000	973.12000	80.00000	973.12000	973.38000	66.00000	74.00000	-9.06020	99.64200
-.005	191.280	973.31000	973.31000	80.00000	973.31000	973.38000	66.00000	74.00000	-8.21570	99.64200
.016	290.680	973.08000	973.08000	80.00000	973.08000	973.38000	66.00000	74.00000	-6.93060	99.64200
.024	390.930	972.93000	972.93000	80.00000	972.93000	973.38000	66.00000	74.00000	-5.20220	99.64200
.003	491.230	972.88000	972.88000	80.00000	972.88000	973.38000	66.00000	74.00000	-5.23430	99.64200
-.015	591.580	972.86000	972.86000	80.00000	972.86000	973.38000	66.00000	74.00000	-5.55880	99.64200
.006	791.200	973.01000	973.01000	80.00000	973.01000	973.38000	66.00000	74.00000	-6.16590	99.64200
.002	871.320	972.87000	972.87000	80.00000	972.87000	973.38000	66.00000	74.00000	-6.70680	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2473/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.913	-56.004	973.32000	973.32000	79.00000	973.32000	973.10999	65.00000	74.00000	-8.06360	99.64200
5.043	5.172	973.21000	973.21000	79.00000	973.21000	973.10999	65.00000	74.00000	-8.20180	99.64200
5.004	41.058	973.16000	973.16000	79.00000	973.16000	973.10999	65.00000	74.00000	-8.78000	99.64200
4.988	91.017	973.00000	973.00000	79.00000	973.00000	973.10999	65.00000	74.00000	-9.03710	99.64200
5.025	190.610	973.37000	973.37000	79.00000	973.37000	973.10999	65.00000	74.00000	-9.73170	99.64200
5.014	290.610	973.03000	973.03000	79.00000	973.03000	973.10999	65.00000	74.00000	-8.87570	99.64200
4.985	391.350	972.97000	972.97000	79.00000	972.97000	973.10999	65.00000	74.00000	-7.63650	99.64200
4.978	531.360	973.31000	973.31000	79.00000	973.31000	973.10999	65.00000	74.00000	-7.42820	99.64200
	GRADIENT	188.17262	188.17262	15.27485	188.17262	188.15329	12.56792	14.30809	-1.59584	19.26603

REPRODUCIBILITY OF THE ORIGINAL PAGE IS P

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK048) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2825/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.047	625.430	400.14000	.05071	-20.03000	.00036	- 40465	-.03194	.01544	.00101	.00051	.11808
-19.993	699.310	399.93000	.20058	-20.01800	.00573	- 42663	-.01106	.01593	-.00000	.00035	.12638
-19.959	798.810	399.73000	.05338	-19.99300	.00322	- 43867	.01086	.01701	-.00142	.00038	.14871
-20.064	999.830	400.21000	.19134	-20.07900	-.00429	- 35951	-.02284	.01199	.00070	.00003	.12596
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2829/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.059	475.170	400.15000	.37810	-15.09000	.00659	- 31406	-.01947	.01236	.00086	.00043	.11538
-15.027	499.730	400.13000	-.51975	-15.05700	-.00684	- 29059	-.03102	.01206	.00124	.00015	.10433
-15.007	549.410	400.03000	.83003	-15.03000	.01414	- 28035	-.02717	.01288	.00059	.00020	.10968
-14.990	599.260	399.93000	.16943	-15.01000	.00794	- 29926	-.01528	.01270	.00004	.00014	.11688
-14.973	699.650	399.82000	.25319	-14.99300	.00480	- 31058	.00543	.01286	-.00076	.00014	.13257
-15.018	799.330	400.00000	.06332	-15.03300	.00207	- 28588	.00056	.01277	-.00095	.00027	.13227
-15.080	1000.000	400.30000	.12344	-15.09500	-.00047	- 21708	-.03306	.00930	.00111	-.00002	.10807
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2833/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.508	349.650	399.95000	.22104	-10.53200	.00763	- 26891	.00654	.01451	-.00249	.00048	.12392
-10.557	399.860	400.04000	.18393	-10.58000	-.00295	- 21104	-.02292	.01017	.00094	.00008	.09992
-10.509	449.300	400.15000	-.11691	-10.53000	.00024	- 20059	-.02285	.01073	.00077	-.00002	.10167
-10.492	499.080	400.03000	.35702	-10.51100	.00780	- 20832	-.01283	.01072	.00029	-.00003	.10647
-10.482	598.830	399.92000	-.07391	-10.49200	.00119	- 21465	.00248	.01074	-.00031	-.00005	.11731
-10.514	699.130	399.83000	.70377	-10.55200	.01146	- 18322	-.00029	.01114	-.00063	.00009	.12018
-10.550	799.860	400.18000	-.10479	-10.58500	-.00284	- 14570	-.02811	.00822	.00116	-.00016	.09755
-10.519	999.290	400.07000	-.03118	-10.53400	.00030	- 13836	-.03099	.00797	.00133	-.00021	.10064
	GRADIENT	.00000	.00000	00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC3) (AVK049) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DSETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2467/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.004	167.080	400.05000	.22510	-5.00440	-.00336	-.16899	-.00773	.00349	.00129	.00011	.10492
-4.980	191.120	400.04000	1.82820	-4.92830	.02432	-.16932	-.00119	.00592	.00032	.00010	.10773
-4.982	241.050	400.04000	-.13747	-4.99130	-.00397	-.15305	.00045	.00387	-.00041	.00012	.10411
-5.003	291.470	400.07000	.10933	-5.01930	-.00530	-.12980	-.00379	.00383	-.00032	.00017	.09897
-4.978	390.920	400.11000	-.13021	-4.99220	-.00734	-.11740	-.00223	.00465	.00046	.00005	.09539
-4.973	490.920	400.08000	-.33760	-4.97230	-.00004	-.11758	.00782	.00031	-.00023	.00010	.10422
-4.995	591.330	400.12000	1.73100	-5.00830	.05215	-.09031	.00428	.00534	-.00029	.00013	.10505
-5.026	691.800	400.13000	.70033	-5.03030	.00463	-.08929	-.01406	.00463	.00064	-.00004	.09368
-5.008	791.420	400.10000	.25919	-5.02230	.00011	-.08173	-.01548	.00429	.00066	-.00007	.09177
-5.002	991.330	400.13000	.00228	-5.01640	-.00405	-.08204	-.01554	.00430	.00071	-.00008	.09341
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2470/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.065	13.334	400.04000	-.20039	-.04755	-.00339	-.08254	-.00833	.00516	.00081	.00034	.09945
.031	40.678	400.03000	-.87232	.04283	-.01342	-.08154	-.01412	.00545	.00034	.00015	.10097
.041	90.433	400.03000	-.13053	.04280	-.00732	-.08145	.00306	.00349	.00029	-.00002	.10059
.009	141.030	400.04000	-.40086	.00428	-.00701	-.07246	.00332	.00351	-.00006	-.00005	.09313
-.006	191.230	400.03000	-.01402	-.01405	-.00303	-.08324	.00109	.00708	-.00007	.00004	.09113
.016	290.000	400.10000	.00049	.00163	-.00003	-.04003	.00103	.00423	.00018	-.00003	.09305
.034	390.930	400.14000	-.12201	.00034	-.00287	-.03032	.01709	.00479	.00018	.00005	.09135
.003	491.230	400.11000	-.10203	-.01105	-.00221	-.03024	.01402	.00350	.00008	-.00004	.09036
-.015	591.530	400.21000	-.20783	-.02006	-.00731	-.00329	.00075	.00434	-.00002	-.00008	.09321
.006	791.200	400.10000	-.20231	-.00814	-.00754	-.00472	.00111	.00332	.00035	-.00008	.09358
.002	871.320	400.15000	-.48021	-.01218	-.01018	-.00518	.00103	.00431	.00034	-.00008	.09352
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2473/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.913	-56.004	399.93000	.65418	4.92270	.00478	-.02794	-.01154	.00503	.00101	.00003	.09729
5.043	5.172	400.27000	-2.04050	5.04780	-.02308	-.03214	.01237	.00519	-.00067	-.00017	.09398
5.004	41.058	400.15000	.09125	5.00200	-.00250	-.02194	.01422	.00504	-.00091	-.00013	.09143
4.998	91.017	400.10000	-.24442	4.99330	-.00315	.00043	.01269	.00481	-.00042	-.00003	.08709
5.025	190.610	400.21000	1.19510	5.01550	.01251	.00469	.02410	.00547	-.00016	-.00002	.09183
5.014	290.610	400.21000	.33209	4.99220	.00187	.00559	.03257	.00494	-.00055	-.00010	.09335
4.985	391.350	400.10000	-.02473	4.97030	-.00476	.03077	.03262	.00295	-.00050	-.00006	.09350
4.978	531.350	400.16000	.10737	4.93290	-.00335	.04293	.01748	.00276	.00003	-.00009	.08722
	GRADIENT	77.39322	-.39456	.97600	-.00578	-.00621	.00239	.00120	-.00013	-.00003	.01817

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2826/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-20.014	625.200	600.13000	.15584	.00826	.19928	-.04042	-.00183	-.00061	.00011	-.02385	.18009
-20.049	700.410	600.41000	.06943	.00183	.18515	-.03114	-.00295	-.00044	.00045	-.02011	.18923
-20.024	800.340	600.39000	.01775	.00164	.15570	-.02809	-.00222	-.00052	.00057	-.01950	.18881
-19.982	999.160	599.69000	.25462	.00811	.15194	-.02771	-.00269	-.00050	.00060	-.01796	.17816
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2830/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-15.000	474.620	600.13000	.37657	.00597	.20286	-.04033	-.00232	-.00062	.00030	-.02216	.18824
-15.023	499.800	600.19000	.79372	.01150	.18493	-.03903	-.00195	-.00058	-.00012	-.02150	.18839
-15.021	549.790	600.19000	.15667	.00601	.17219	-.03378	-.00228	-.00053	.00016	-.01862	.18858
-15.055	600.450	600.32000	-.22373	-.00151	.15949	-.02893	-.00301	-.00045	.00052	-.01799	.16862
-14.940	799.730	599.94000	.26803	.00465	.15108	-.02760	-.00292	-.00052	.00061	-.01667	.17911
-15.008	999.410	600.04000	-.02059	.00524	.15319	-.02780	-.00289	-.00051	.00059	-.01761	.18833
	GRADIENT	.00000	-.35147	-.00280	.15239	-.02767	-.00289	-.00053	.00060	-.01745	.18873
			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2834/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-10.487	349.590	600.05000	-.43436	-.00322	.26009	-.04632	-.00130	-.00080	.00068	-.01768	.18778
-10.504	399.730	600.13000	.17835	.00226	.20444	-.03922	-.00211	-.00067	.00056	-.01895	.18804
-10.517	449.700	600.15000	.61046	.01175	.17170	-.03369	-.00213	-.00064	.00012	-.01880	.18797
-10.546	500.150	600.30000	-.04731	.00146	.17000	-.03245	-.00255	-.00051	.00032	-.01818	.18804
-10.536	600.090	600.32000	-.72648	-.00222	.15831	-.03024	-.00228	-.00055	.00057	-.01750	.18778
-10.485	699.280	600.05000	.01922	.00377	.15598	-.02812	-.00277	-.00056	.00059	-.01743	.18769
-10.478	799.080	600.03000	.01753	.00321	.15334	-.02809	-.00284	-.00055	.00059	-.01738	.18785
-10.516	999.340	600.11000	.21231	.00501	.15360	-.02812	-.00285	-.00054	.00058	-.01731	.18769
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC3) W/ET SEPARATING (SVK049) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2826/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.014	625.200	-.02400	-.00081	.00826	-.07638	.00118	.00951	.00691	-.00077	.00037
-20.049	700.410	-.01700	-.00086	.00183	-.11114	.01070	.01344	.00584	-.00061	.00071
-20.024	800.340	-.01500	-.00074	.00164	-.12167	.01392	.01418	.00601	-.00069	.00083
-19.982	999.160	-.01400	-.00073	.00811	-.12049	.01341	.01501	.00595	-.00066	.00086
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2830/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.000	474.620	-.02600	-.00081	.00597	-.07026	-.00177	.01087	.00634	-.00078	.00056
-15.023	499.800	-.02400	-.00082	.01150	-.08758	.00210	.01148	.00669	-.00074	.00013
-15.021	549.790	-.01900	-.00079	.00601	-.10122	.00748	.01447	.00639	-.00070	.00042
-15.053	600.450	-.01600	-.00083	-.00151	-.11331	.01124	.01502	.00584	-.00061	.00077
-15.042	700.240	-.01500	-.00071	.00465	-.12018	.01334	.01616	.00568	-.00068	.00036
-14.940	798.730	-.01500	-.00074	.00624	-.12062	.01352	.01553	.00579	-.00067	.00085
-15.008	999.410	-.01400	-.00071	-.00230	-.12034	.01332	.01559	.00576	-.00069	.00065
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2834/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.487	349.590	-.02600	-.00067	-.00322	-.01838	-.00430	.01601	.00753	-.00097	.00094
-10.504	399.730	-.02300	-.00073	.00226	-.07377	.00206	.01471	.00671	-.00083	.00083
-10.517	449.700	-.01900	-.00068	.01175	-.10660	.00629	.01507	.00669	-.00081	.00038
-10.546	500.150	-.01700	-.00020	.00146	-.10759	.00830	.01546	.00625	-.00068	.00058
-10.536	600.090	-.01400	-.00070	-.00332	-.12118	.01389	.01512	.00593	-.00071	.00083
-10.485	699.280	-.01400	-.00068	.00377	-.12167	.01378	.01617	.00604	-.00073	.00085
-10.478	799.080	-.01500	-.00069	.00321	-.12130	.01369	.01612	.00594	-.00072	.00085
-10.516	999.340	-.01500	-.00071	.00501	-.12137	.01368	.01621	.00593	-.00071	.00084
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC3) W/ET SEPARATING (TVK049) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2826/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.014	625.200	600.13000	.15594	.02216	-.03106	213.42000	.00000	.00000	645.17000	.00000	.00000
-20.049	700.410	600.41000	.06943	.02352	-.03206	213.70000	.00000	.00000	648.93000	.00000	.00000
-20.024	800.340	600.39000	.01775	.02551	-.04011	221.55000	.00000	.00000	651.52000	.00000	.00000
-19.982	999.160	599.63000	.25452	.05275	-.05932	216.83000	.00000	.00000	637.63000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2830/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.000	474.620	600.13000	.37857	.02818	-.02167	213.28000	.00000	.00000	638.78000	.00000	.00000
-15.023	499.800	600.19000	.79372	.03206	-.00334	213.92000	.00000	.00000	637.81000	.00000	.00000
-15.021	549.790	600.19000	.15957	.03136	-.01762	213.83000	.00000	.00000	639.91000	.00000	.00000
-15.055	600.450	600.32000	-.22373	.03269	-.02064	213.15000	.00000	.00000	638.47000	.00000	.00000
-15.042	700.240	600.34000	.23903	.03211	-.02218	211.93000	.00000	.00000	634.88000	.00000	.00000
-14.940	799.730	599.94000	-.02050	.03334	-.02516	213.98000	.00000	.00000	640.84000	.00000	.00000
-15.008	999.410	600.04000	-.36147	.03761	-.03269	213.26000	.00000	.00000	638.80000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2834/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.487	349.590	600.05000	-.43436	.05638	.00618	221.64000	.00000	.00000	651.75000	.00000	.00000
-10.504	399.730	600.13000	.17835	.02273	-.03324	221.46000	.00000	.00000	651.17000	.00000	.00000
-10.517	449.700	600.15000	.61046	.03699	.01220	221.43000	.00000	.00000	651.12000	.00000	.00000
-10.546	500.150	600.30000	-.04731	.02742	-.00738	220.27000	.00000	.00000	650.65000	.00000	.00000
-10.536	600.090	600.32000	-.72648	.02713	-.01058	221.11000	.00000	.00000	650.17000	.00000	.00000
-10.486	699.280	600.06000	.01922	.02781	-.01099	219.93000	.00000	.00000	649.84000	.00000	.00000
-10.478	799.080	600.03000	.01753	.02841	-.01169	219.36000	.00000	.00000	647.94000	.00000	.00000
-10.516	993.340	600.11000	.21231	.03075	-.01622	211.46000	.00000	.00000	648.23000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK049) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2826/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.014	625.200	975.00000	975.00000	84.00000	975.00000	958.70000	86.00000	77.00000	-14.27300	99.64200
-20.049	700.410	978.84000	978.84000	84.00000	978.84000	958.70000	86.00000	77.00000	-15.44800	99.64200
-20.024	800.340	983.62000	983.62000	84.00000	983.62000	958.70000	86.00000	77.00000	-15.21160	99.64200
-19.982	999.160	958.89000	958.89000	84.00000	958.89000	958.70000	86.00000	77.00000	1.92130	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2830/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.000	474.620	972.80000	972.80000	83.00000	972.80000	972.71000	86.00000	78.00000	-6.90160	99.64200
-15.023	499.800	972.34000	972.34000	83.00000	972.34000	972.71000	86.00000	78.00000	-7.19450	99.64200
-15.021	549.790	971.29000	971.29000	83.00000	971.29000	972.71000	86.00000	78.00000	-6.83020	99.64200
-15.055	600.450	969.12000	969.12000	83.00000	969.12000	972.71000	86.00000	78.00000	-5.97900	99.64200
-15.042	700.240	964.60000	964.60000	83.00000	964.60000	972.71000	86.00000	78.00000	-5.04240	99.64200
-14.940	799.730	974.13000	974.13000	83.00000	974.13000	972.71000	86.00000	78.00000	-4.30120	99.64200
-15.008	999.410	972.90000	972.90000	83.00000	972.90000	972.71000	86.00000	78.00000	-3.72500	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2834/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.487	349.590	972.44000	972.44000	82.00000	972.44000	972.25999	85.00000	77.00000	-2.12170	99.64200
-10.504	399.730	972.53000	972.53000	82.00000	972.53000	972.25999	85.00000	77.00000	-4.61600	99.64200
-10.517	449.700	972.46000	972.46000	82.00000	972.46000	972.25999	85.00000	77.00000	-4.73130	99.64200
-10.546	500.150	972.71000	972.71000	82.00000	972.71000	972.25999	85.00000	77.00000	-4.43550	99.64200
-10.536	600.090	972.47000	972.47000	82.00000	972.47000	972.25999	85.00000	77.00000	-3.90730	99.64200
-10.486	699.280	972.48000	972.48000	82.00000	972.48000	972.25999	85.00000	77.00000	-3.24500	99.64200
-10.478	799.080	972.49000	972.49000	82.00000	972.49000	972.25999	85.00000	77.00000	-2.64290	99.64200
-10.516	999.340	972.45000	972.45000	82.00000	972.45000	972.25999	85.00000	77.00000	-1.99300	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2826/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.014	625.200	600.13000	.15584	-20.03800	.00745	-.42076	-.02818	.02103	-.00218	.00061	.12509
-20.049	700.410	600.41000	.06943	-20.06500	.00097	-.41466	-.02420	.01757	-.00056	.00026	.11792
-20.024	800.340	600.39000	.01775	-20.03900	.00090	-.42457	-.00481	.01660	-.00081	.00032	.13507
-19.982	999.160	599.85000	.25452	-19.99500	.00738	-.38972	-.00471	.01515	-.00103	.00039	.14503
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2830/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.000	474.620	600.13000	.37957	-15.02600	.00515	-.32932	-.01959	.01042	.00070	.00021	.11159
-15.023	499.800	600.19000	.79372	-15.04700	.01089	-.30870	-.02728	.01286	-.00021	.00001	.10881
-15.021	549.790	600.19000	.15657	-15.04000	.00522	-.30053	-.02713	.01406	-.00052	-.00001	.10954
-15.055	600.450	600.32000	-.22373	-15.07100	-.00234	-.29347	-.02524	.01223	.00039	.00004	.11019
-15.042	700.240	600.34000	.22903	-15.05700	.00385	-.30437	-.00574	.01271	-.00037	.00007	.12279
-14.940	793.730	599.54000	-.02050	-14.93500	.00450	-.30324	.00039	.01268	-.00103	.00014	.13517
-15.008	999.410	600.04000	-.36147	-15.02200	-.00351	-.21614	-.03221	.00920	.00113	-.00003	.10737
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2834/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.487	349.590	600.05000	-.43436	-10.51300	-.00339	-.20302	.00040	.01081	.00080	.00012	.12339
-10.504	399.730	600.13000	.17855	-10.52700	.00153	-.23372	-.01733	.00856	.00105	.00005	.10531
-10.517	449.700	600.10000	.61046	-10.53300	.01107	-.21305	-.02224	.01028	-.00001	-.00012	.10239
-10.546	500.150	600.30000	-.04731	-10.56300	.00057	-.20826	-.02113	.01044	.00027	-.00012	.10295
-10.536	600.090	600.32000	-.72648	-10.55000	-.00892	-.21133	-.00591	.01071	-.00014	-.00010	.11169
-10.486	699.280	600.06000	.01922	-10.50000	.00308	-.20605	.00339	.01114	-.00057	-.00007	.12022
-10.473	799.080	600.03000	.01753	-10.49300	.00251	-.16498	-.01512	.00892	.00045	-.00009	.10917
-10.516	999.340	600.11000	.21231	-10.53100	.00430	-.13081	-.03133	.00774	.00119	-.00021	.10173
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK050) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2743/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.015	624.620	-.04824	.09895	.00273	.67258	-.00916	.00225	-.00082	.00241	-.02480	.23280
-19.964	699.550	-.13540	-.04350	.00353	.64653	-.02852	.00173	-.00077	.00244	-.03216	.23266
-20.012	799.930	-.00213	.19225	.00457	.49004	-.02725	.00201	-.00058	.00147	-.04462	.23277
-20.001	999.390	-.01249	-1.49220	-.01954	.29138	.01144	-.00005	-.00058	.00028	-.03854	.23277
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2747/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-15.512	499.620	-.04260	.03198	.00281	.57891	-.00402	.00202	-.00114	.00290	-.02743	.23391
-15.494	548.890	-.09207	-.01167	.00371	.54924	-.01385	.00258	-.00128	.00223	-.03190	.23367
-15.495	598.130	-.04228	.16390	.00407	.51814	-.01813	.00172	-.00111	.00182	-.03937	.23409
-15.512	698.920	-.10305	.16167	.00490	.40824	-.01196	.00120	-.00084	.00049	-.04291	.23397
-15.590	800.610	.27875	.09005	-.00193	.30357	.00632	.00012	-.00070	.00043	-.04170	.23394
-15.521	999.480	.23675	-.06122	.00059	.28925	.01192	-.00036	-.00061	.00032	-.03897	.23379
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-9.998	317.060	.00983	.09339	.00282	.54459	.02101	-.00950	-.00058	.00104	.00376	.23442
-10.027	342.080	.11240	.10937	.00100	.50632	.01803	-.00923	-.00031	.00116	-.00047	.23419
-9.983	390.850	-.04552	.09785	.00361	.45703	.00843	-.00899	-.00034	.00061	-.01082	.23493
-9.986	441.170	-.10121	.15552	.00426	.41929	.00691	-.00856	-.00045	.00036	-.01615	.23470
-9.985	491.240	-.06131	-.05910	.00206	.40792	.00509	-.00846	-.00044	.00006	-.01553	.23406
-10.002	591.310	-.04749	.16027	.00492	.37351	.00711	-.00905	-.00035	-.00003	-.01376	.23236
-10.045	691.970	.08833	.51473	.00461	.33729	.00585	-.00827	-.00033	.00004	-.01696	.23420
-10.006	791.620	.02047	.03310	.00230	.30319	.01121	-.00859	-.00034	-.00032	-.01808	.23439
-10.004	991.530	.00072	.08389	.00299	.28308	.01341	-.00897	-.00034	-.00023	-.01625	.23384
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1009.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMELDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2429/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.080	170.000	-.00147	-.17810	-.00397	.34587	.02809	-.01002	-.00014	.00012	.00110	.23252
-4.990	191.280	.05502	.28970	.00081	.37466	.02779	-.01038	-.00022	-.00015	.00180	.23360
-4.997	241.340	.01051	-.24378	-.00147	.40015	.02449	-.01036	-.00059	-.00051	-.00553	.23356
-4.981	290.890	-.01430	-.04204	.00295	.39092	.02019	-.00636	-.00048	-.00025	-.01260	.23341
-4.977	390.590	-.05036	-.05795	.00227	.38503	.01605	-.00930	-.00040	-.00013	-.01621	.23396
-4.999	491.260	-.05000	.01218	.00203	.38057	.01205	-.00936	-.00035	.00003	-.01505	.23293
-5.031	591.790	.00470	-.00459	.00120	.38005	.00948	-.00944	-.00033	-.00008	-.01695	.23236
-5.014	691.450	-.04021	.02045	.00051	.38020	.01005	-.00910	-.00037	-.00022	-.01972	.23169
-5.005	791.420	.00375	-.17418	.00016	.38009	.01350	-.00953	-.00029	-.00023	-.01806	.23145
-5.009	991.390	.02003	-.03023	.00074	.38005	.01333	-.00934	-.00030	-.00024	-.01763	.23069
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2435/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
.012	40.944	.77012	-.20845	-.00315	.24749	.00171	-.01039	-.00046	-.00036	-.01409	.23449
-.048	93.120	.01375	-.18041	-.00051	.28092	.01723	-.01033	-.00000	-.00020	-.00368	.23381
-.000	141.630	.00373	.57400	.01105	.32113	.02413	-.01033	-.00003	-.00010	-.00226	.23481
.013	191.190	.00000	.04816	.00005	.34184	.02021	-.01126	-.00031	-.00054	-.00864	.23414
.036	290.230	.07004	-.07037	.00375	.33131	.02375	-.01031	-.00034	-.00023	-.01511	.23449
-.006	391.090	.10343	.02302	.00339	.34059	.01697	-.00934	-.00033	-.00007	-.01406	.23453
-.030	491.470	.12003	-.22975	-.00346	.35147	.00934	-.00939	-.00040	-.00011	-.01581	.23408
-.008	591.300	.04049	.39765	.00021	.32514	.00033	-.00940	-.00039	-.00016	-.01850	.23452
-.014	791.260	.03328	.20303	.00495	.28057	.01359	-.00942	-.00037	-.00026	-.01807	.23400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2441/ 0 RN/L = .89 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
5.089	-53.615	2.20770	-.35187	-.00173	.23950	- 00151	-.00951	-.00012	-.00024	-.02959	.23344
4.954	15.658	-.03510	-.45338	-.00782	.24058	00423	-.01072	-.00077	-.00008	-.00760	.23438
4.955	50.579	-.03001	-.05085	-.00123	.27333	01003	-.01116	.00005	-.00025	-.00400	.23517
5.019	99.005	.13033	-.14020	.00032	.25732	02322	-.01026	-.00057	-.00008	-.00292	.23393
5.019	193.530	.13182	.03378	.00777	.33031	02432	-.00933	-.00035	-.00025	-.01120	.23355
4.991	293.530	.08084	.07063	.00202	.33855	01903	-.00939	-.00046	-.00016	-.01310	.23367
4.996	399.110	.14491	.21940	.00454	.33014	01174	-.00946	-.00037	-.00002	-.01351	.23377
4.990	479.170	.03498	.20893	.00035	.33309	00782	-.00955	-.00038	-.00014	-.01483	.23357
	GRADIENT	-.00224	-.02897	-.00049	.01536	00027	-.00068	-.00005	-.00001	-.00049	.01497

V418-D9A (IA22),ORBITER(04RC): W/ET SEPARATING (SVK050) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2743/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.015	624.620	5.02600	-.00009	.00273	.33872	.00181	.01923	.00965	-.00177	.00246
-19.964	698.550	5.00800	-.00041	.00363	.31247	-.01755	.01189	.00913	-.00171	.00248
-20.012	798.930	5.00200	-.00031	.00457	.15599	-.01627	-.00055	.00941	-.00182	.00152
-20.001	999.390	5.02700	-.00013	-.01954	-.04257	.02241	.00550	.00735	-.00153	.00033
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2747/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.512	499.620	5.02700	.00031	.00261	.24735	.00587	.01630	.00936	-.00208	.00295
-15.494	548.890	5.01200	.00032	.00371	.21639	-.00204	.01187	.00993	-.00221	.00227
-15.495	599.130	5.01100	.00007	.00407	.16571	-.00721	.00948	.00909	-.00204	.00186
-15.512	698.920	5.01200	-.00015	.00490	.07594	-.00105	.00092	.00857	-.00178	.00053
-15.590	800.610	5.02400	-.00005	-.00193	-.02682	.01774	.00209	.00747	-.00164	.00048
-15.521	999.480	5.02200	-.00008	.00059	-.04328	.02235	.00488	.00701	-.00155	.00036
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.998	317.060	5.04220	.00023	.00282	.21154	.03195	.04768	-.00212	-.00152	.00108
-10.027	342.090	5.04380	-.00012	.00100	.17336	.02697	.04344	-.00185	-.00125	.00121
-9.983	390.850	5.02260	-.00023	.00351	.12401	.01937	.03310	-.00161	-.00128	.00065
-9.986	441.170	5.02970	-.00015	.00426	.08563	.01784	.02772	-.00119	-.00138	.00040
-9.985	491.240	5.02750	-.00019	.00206	.07528	.01602	.02834	-.00109	-.00138	.00010
-10.002	591.310	5.02320	-.00025	.00492	.04140	.01802	.03004	-.00169	-.00129	.00001
-10.045	691.970	5.02540	-.00030	.00461	.00506	.01677	.02685	-.00190	-.00127	.00008
-10.006	791.680	5.02790	-.00022	.00290	-.02863	.02211	.02569	-.00154	-.00128	-.00028
-10.004	991.530	5.03010	-.00020	.00299	-.03518	.02430	.02744	-.00163	-.00127	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK050) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2429/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.080	170.000	5.04655	-.00017	-.00397	.01004	.04092	.04539	-.00257	-.00109	.00016
-4.990	191.280	5.04594	-.00010	.00081	.03954	.03881	.04600	-.00296	-.00117	-.00010
-4.997	241.340	5.04415	.00025	-.00147	.03477	.03551	.03370	-.00293	-.00154	-.00057
-4.981	290.890	5.03983	.00005	.00295	.05518	.03122	.03167	-.00112	-.00143	-.00021
-4.977	390.590	5.03642	-.00006	.00227	.01999	.02909	.02810	-.00166	-.00135	-.00008
-4.999	491.260	5.03134	-.00019	.00203	.02785	.02309	.02922	-.00182	-.00130	.00008
-5.031	591.790	5.02691	-.00028	.00120	.01748	.01749	.02735	-.00202	-.00127	-.00003
-5.014	691.450	5.02773	-.00020	.00261	-.02011	.02194	.02438	-.00170	-.00131	-.00017
-5.005	791.420	5.02953	-.00025	.00016	-.03506	.02427	.02598	-.00193	-.00123	-.00019
-5.009	991.390	5.02058	-.00024	.00074	-.03541	.02459	.02635	-.00155	-.00124	-.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2435/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.012	40.944	5.01676	-.00022	-.00315	-.08933	.01278	.03033	-.00292	-.00141	-.00031
-.048	93.120	5.03282	-.00049	-.00051	-.04636	.02330	.04057	-.00316	-.00095	-.00015
-.000	141.670	5.04021	-.00031	.01185	-.01574	.03320	.04217	-.00287	-.00103	-.00006
.013	191.190	5.04301	.00031	.00485	.00333	.03727	.03576	-.00280	-.00156	-.00059
.036	290.230	5.04035	-.00005	.00375	-.00803	.03483	.02835	-.00243	-.00129	-.00019
-.006	391.090	5.03494	-.00014	.00339	.00878	.02304	.03035	-.00238	-.00128	-.00002
-.030	491.470	5.02874	-.00017	-.00346	.01773	.02061	.02830	-.00223	-.00134	-.00007
-.008	591.300	5.[illegible]53	-.00022	.00321	-.01138	.01959	.02578	-.00194	-.00133	-.00011
-.014	791.260	[illegible]95	-.00016	.00495	-.03367	.02473	.02628	-.00197	-.00132	-.00021
	GRADIENT	00	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2441/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.089	-53.615	5.01420	-.00083	-.00173	-.08535	.00920	.01328	-.00239	-.00104	-.00020
4.954	15.658	5.01920	.00019	-.00782	-.08350	.01498	.03542	-.00349	-.00169	-.00003
4.965	50.579	5.03120	-.00055	-.00123	-.05275	.02629	.03901	-.00393	-.00087	-.00021
5.019	99.005	5.03310	.00024	.00252	-.02635	.03403	.04007	-.00344	-.00149	-.00004
5.019	198.530	5.04210	.00000	.00777	.00007	.03522	.03175	-.00214	-.00128	-.00021
4.991	299.950	5.03360	.00004	.00202	-.00294	.02973	.02993	-.00208	-.00137	-.00012
4.936	399.110	5.03110	-.00015	.00464	.01378	.02243	.02340	-.00225	-.00129	.00002
4.990	479.170	5.02330	-.00019	.00665	.00829	.01850	.02300	-.00246	-.00129	-.00010
	GRADIENT	.32055	.00001	-.00049	-.00547	.00096	.00226	-.00022	-.00011	-.00000

V41B-D9A (IA22),ORBITER(04R:1) W/ET SEPARATING (TVK050) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2743/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.015	624.620	-.04824	.09895	-.01550	-.24723	442.94000	.00000	.00000	661.39000	.00000	.00000
-19.964	698.550	-.13340	-.04350	-.01211	-.24852	442.19000	.00000	.00000	661.77000	.00000	.00000
-20.012	799.930	-.00213	.19225	.30050	.19022	442.30000	.00000	.00000	661.95000	.00000	.00000
-20.001	999.390	-.01249	-1.49920	.06012	-.10325	442.05000	.00000	.00000	661.56000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2747/ 0 RN/L = .87 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.512	499.620	-.04260	.03198	-.07831	-.35220	438.87000	.00000	.00000	656.81000	.00000	.00000
-15.494	548.890	-.09207	-.01167	-.00704	-.25875	439.27000	.00000	.00000	657.41000	.00000	.00000
-15.495	599.130	-.04228	.16590	.28911	.16920	440.04000	.00000	.00000	658.55000	.00000	.00000
-15.512	699.920	-.10006	.16167	.03413	-.16516	439.87000	.00000	.00000	659.30000	.00000	.00000
-15.530	800.610	.27075	.09305	.05977	-.09188	439.53000	.00000	.00000	657.87000	.00000	.00000
-15.521	999.480	.23375	-.06122	.05502	-.07801	440.17000	.00000	.00000	658.75000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .88 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.988	317.060	.00283	.09339	-.06261	-.12059	440.66000	.00000	.00000	659.79000	.00000	.00000
-10.027	342.080	.11240	.10937	-.17105	-.28346	440.74000	.00000	.00000	659.61000	.00000	.00000
-9.983	390.650	-.04882	.03765	.16757	.23785	440.83000	.00000	.00000	659.73000	.00000	.00000
-9.986	441.170	-.10121	.15382	.01766	-.01337	440.33000	.00000	.00000	659.02000	.00000	.00000
-9.985	421.240	-.06131	-.03910	-.00054	-.04703	440.31000	.00000	.00000	659.03000	.00000	.00000
-10.002	591.310	-.04749	.16027	.00462	-.04169	439.61000	.00000	.00000	657.91000	.00000	.00000
-10.045	691.970	.05883	.51473	.01474	-.03379	439.77000	.00000	.00000	658.18000	.00000	.00000
-10.006	791.680	.02047	.03310	.02284	-.01104	439.23000	.00000	.00000	657.35000	.00000	.00000
-10.004	991.530	.00072	.08399	.02301	-.00555	438.49000	.00000	.00000	656.23000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(O4RH:1) W/ET SEPARATING (TVK050) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2429/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.080	170.000	-.00147	-.17810	-.06550	-.22014	44.53000	.00000	.00000	665.28000	.00000	.00000
-4.990	191.280	.05502	-.26970	.01258	-.06525	43.60000	.00000	.00000	663.69000	.00000	.00000
-4.997	241.340	.01061	-.24378	.02142	-.05595	43.94000	.00000	.00000	664.40000	.00000	.00000
-4.981	290.880	-.01430	-.04294	.02168	-.04843	44.22000	.00000	.00000	664.91000	.00000	.00000
-4.977	390.530	-.05026	-.06795	.02018	-.03002	44.74000	.00000	.00000	665.52000	.00000	.00000
-4.999	491.260	-.00090	.01218	.01505	-.04513	44.40000	.00000	.00000	665.00000	.00000	.00000
-5.031	591.790	.00470	-.00459	.00481	-.05035	43.53000	.00000	.00000	663.76000	.00000	.00000
-5.014	691.450	-.04021	.02045	.02718	-.02005	42.53000	.00000	.00000	662.28000	.00000	.00000
-5.005	791.420	.06275	-.17418	.02540	-.01659	42.05000	.00000	.00000	661.57000	.00000	.00000
-5.009	991.390	.02596	-.05323	.02277	-.01359	41.41000	.00000	.00000	660.61000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2435/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.012	40.944	.77012	-.20645	.00554	.00698	45.68000	.00000	.00000	667.26000	.00000	.00000
-.048	93.120	.01375	-.18341	.01249	.01839	46.05000	.00000	.00000	667.57000	.00000	.00000
-.000	141.630	.03373	.57420	.00344	.01047	45.92000	.00000	.00000	667.35000	.00000	.00000
.013	191.190	.05000	.04916	.01018	.02417	45.57000	.00000	.00000	666.83000	.00000	.00000
.035	290.230	.07034	-.07037	.00702	.01876	46.34000	.00000	.00000	667.93000	.00000	.00000
-.006	391.090	.10343	.02682	-.00436	.00232	45.68000	.00000	.00000	667.23000	.00000	.00000
-.030	491.470	.12503	-.20975	-.01158	-.01974	45.75000	.00000	.00000	667.10000	.00000	.00000
-.008	591.300	.04649	.39765	.00329	.00611	45.46000	.00000	.00000	666.68000	.00000	.00000
-.014	791.260	.08526	.26883	.00051	.01241	45.07000	.00000	.00000	665.09000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2441/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.089	-53.615	2.20770	-.35187	-.01639	.04483	431.32000	.00000	.00000	645.51000	.00000	.00000
4.954	15.658	-.03510	-.45368	-.02332	.03434	431.77000	.00000	.00000	646.17000	.00000	.00000
4.965	50.579	-.03001	-.09085	-.01695	.04397	431.69000	.00000	.00000	646.04000	.00000	.00000
5.019	99.005	.13355	-.14020	-.01648	.05035	431.48000	.00000	.00000	645.75000	.00000	.00000
5.019	198.530	.13122	.08378	-.01931	.04736	431.16000	.00000	.00000	645.30000	.00000	.00000
4.991	298.930	.06094	.07067	-.02714	.03364	430.68000	.00000	.00000	644.81000	.00000	.00000
4.986	399.110	.14481	.21840	-.03538	.02108	430.67000	.00000	.00000	644.53000	.00000	.00000
4.990	479.170	.03498	.20993	-.04286	.00317	429.94000	.00000	.00000	643.44000	.00000	.00000
	GRADIENT	-.00224	-.02897	-.00149	.00219	27.57504	.00000	.00000	41.26772	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK050) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2743/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.015	624.620	976.60000	976.60000	91.00000	976.59000	976.39000	12.00000	76.00000	22.91800	99.51600
-19.984	698.550	976.65000	976.65000	91.00000	976.65000	976.39000	12.00000	76.00000	24.24800	99.51600
-20.012	798.930	976.42000	976.42000	91.00000	976.42000	976.39000	12.00000	76.00000	27.43900	99.51600
-20.001	999.390	976.34000	976.34000	91.00000	976.34000	976.39000	12.00000	76.00000	20.35300	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2747/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.512	499.620	979.51000	979.51000	89.00000	979.51000	979.32000	8.00000	78.00000	25.79900	99.64200
-15.494	548.890	979.43000	979.43000	89.00000	979.43000	979.32000	8.00000	78.00000	26.10900	99.64200
-15.495	599.130	979.67000	979.67000	89.00000	979.67000	979.32000	8.00000	78.00000	27.98400	99.64200
-15.512	698.920	979.78000	979.78000	89.00000	979.78000	979.32000	8.00000	78.00000	25.15900	99.64200
-15.590	800.610	980.11000	980.11000	89.00000	980.11000	979.32000	8.00000	78.00000	21.06300	99.64200
-15.521	999.480	979.97000	979.97000	89.00000	979.97000	979.32000	8.00000	78.00000	14.55300	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.998	317.060	980.54000	980.54000	81.00000	980.54000	980.32999	66.00000	72.00000	39.98400	99.76800
-10.027	342.080	980.76000	980.76000	81.00000	980.76000	980.32999	66.00000	72.00000	41.85300	99.76800
-9.993	390.650	980.45000	980.45000	81.00000	980.45000	980.32999	66.00000	72.00000	39.97700	99.76800
-9.986	441.170	979.60000	979.60000	81.00000	979.60000	980.32999	66.00000	72.00000	33.08400	99.76800
-9.965	491.240	979.80000	979.80000	81.00000	979.80000	980.32999	66.00000	72.00000	27.60800	99.76800
-10.002	591.310	978.73000	978.73000	81.00000	978.73000	980.32999	66.00000	72.00000	22.75400	99.76800
-10.045	691.970	978.61000	978.61000	81.00000	978.61000	980.32999	66.00000	72.00000	19.60300	99.76800
-10.006	791.620	977.60000	977.60000	81.00000	977.60000	980.32999	66.00000	72.00000	17.09100	99.76800
-10.004	991.530	977.20000	977.20000	81.00000	977.20000	980.32999	66.00000	72.00000	12.61900	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-DSA (1.22),ORBITER(04RC1) W/ET SEPARATING (UVK050) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2429/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.080	170.000	976.42000	976.42000	79.00000	976.42000	976.21000	64.00000	73.00000	-.26276	99.76800
-4.990	191.280	974.85000	974.85000	79.00000	974.85000	976.21000	64.00000	73.00000	6.37750	99.76800
-4.997	241.340	974.14000	974.14000	79.00000	974.14000	976.21000	64.00000	73.00000	7.14910	99.76800
-4.981	290.890	974.39000	974.39000	79.00000	974.39000	976.21000	64.00000	73.00000	5.37450	99.76800
-4.977	390.590	975.83000	975.83000	79.00000	975.83000	976.21000	64.00000	73.00000	4.64510	99.76800
-4.999	491.230	974.15000	974.15000	79.00000	974.15000	976.21000	64.00000	73.00000	3.75090	99.76800
-5.031	591.790	972.74000	972.74000	79.00000	972.74000	976.21000	64.00000	73.00000	3.71170	99.76800
-5.014	691.450	971.04000	971.04000	79.00000	971.04000	976.21000	64.00000	73.00000	4.16730	99.76800
-5.005	791.420	969.02000	969.02000	79.00000	969.02000	976.21000	64.00000	73.00000	2.91970	99.76800
-5.009	991.390	967.13000	967.13000	79.00000	967.13000	976.21000	64.00000	73.00000	.68607	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2435/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.012	40.944	977.85000	977.85000	79.00000	977.85000	977.64000	65.00000	72.00000	-3.43980	99.76800
-.048	93.120	977.81000	977.81000	79.00000	977.81000	977.64000	65.00000	72.00000	-3.16840	99.76800
-.000	141.630	977.99000	977.99000	79.00000	977.99000	977.64000	65.00000	72.00000	-3.31470	99.76800
.013	191.190	977.71000	977.71000	79.00000	977.71000	977.64000	65.00000	72.00000	-3.44430	99.76800
.035	290.230	977.92000	977.92000	79.00000	977.92000	977.64000	65.00000	72.00000	-3.10330	99.76800
-.006	391.090	977.64000	977.64000	79.00000	977.64000	977.64000	65.00000	72.00000	-2.59350	99.76800
-.030	491.470	977.61000	977.61000	79.00000	977.61000	977.64000	65.00000	72.00000	-.55268	99.76800
-.008	591.300	977.48000	977.48000	79.00000	977.48000	977.64000	65.00000	72.00000	3.92600	99.76800
-.014	791.260	977.60000	977.60000	79.00000	977.60000	977.64000	65.00000	72.00000	3.12200	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2441/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.089	-53.615	976.02000	976.02000	78.00000	976.02000	975.81000	64.00000	73.00000	-7.25390	99.76800
4.954	15.668	976.54000	976.54000	78.00000	976.54000	975.81000	64.00000	73.00000	-7.68030	99.76800
4.965	50.579	977.30000	977.30000	78.00000	977.30000	975.81000	64.00000	73.00000	-8.43180	99.76800
5.019	99.005	976.83000	976.83000	78.00000	976.83000	975.81000	64.00000	73.00000	-8.87310	99.76800
5.019	198.530	976.18000	976.18000	78.00000	976.18000	975.81000	64.00000	73.00000	-8.93350	99.76800
4.991	298.950	975.91000	975.91000	78.00000	975.91000	975.81000	64.00000	73.00000	-8.71910	99.76800
4.986	399.110	975.48000	975.48000	78.00000	975.48000	975.81000	64.00000	73.00000	-7.93420	99.76800
4.990	479.170	974.79000	974.79000	78.00000	974.79000	975.81000	64.00000	73.00000	-6.11120	99.76800
	GRADIENT	62.36684	62.36684	4.98148	62.36684	62.32022	4.08737	4.66215	-.50328	6.37169

V41B-D9A (IA22),ET SEPARATIN) FROM 063 (04RC1) (AVK050) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2743/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.015	624.620	-.04034	.09095	-14.99000	.00264	-.34304	.00990	.01335	-.00063	.00023	.11511
-19.984	698.550	-.13040	-.04350	-14.99300	.00322	-.34976	.02320	.01453	-.00193	.00037	.13896
-20.012	753.930	-.00213	.19385	-15.01000	.00426	-.31023	.01577	.01453	-.00203	.00052	.14081
-20.001	939.390	-.01249	-1.49220	-14.97400	-.01937	-.21004	-.03022	.00535	.00107	-.00001	.10550
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2747/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.512	499.620	-.04260	.03198	-10.48300	.00282	-.25243	.00946	.01120	-.00040	.00014	.10658
-15.494	548.690	-.09207	-.01167	-10.47800	.00403	-.23485	.01003	.01130	-.00117	.00010	.11001
-15.495	599.130	-.04228	.18290	-10.48400	.00414	-.23430	.01950	.01125	-.00126	.00009	.12202
-15.512	699.920	-.10936	.18187	-10.50000	.00475	-.20187	.01020	.01147	-.00160	.00030	.11942
-15.590	800.610	.27875	.08305	-10.55300	-.00193	-.15337	-.03827	.00205	.00095	-.00014	.03611
-15.521	959.480	.23575	-.06122	-10.48200	.00051	-.14184	-.03121	.00758	.00116	-.00018	.09536
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.993	317.060	.00883	.00359	-4.99030	.00305	-.23059	.00291	.01045	-.00182	.00064	.10471
-10.027	342.080	.11240	.10037	-4.99220	.00008	-.19805	.01759	.00735	-.00051	.00040	.09574
-9.993	390.850	-.04552	.09735	-4.99040	.00338	-.19050	.01486	.00809	-.00041	.00022	.09534
-9.986	441.170	-.10121	.15052	-4.98950	.00411	-.14672	.01714	.00513	-.00060	.00017	.09974
-9.985	491.240	-.06131	-.05910	-4.99700	.00187	-.14756	.02359	.00849	-.00105	.00017	.10763
-10.002	591.310	-.04749	.16027	-4.97300	.00467	-.12164	.01703	.00755	-.00144	.00035	.11021
-10.045	691.970	.05083	.51473	-5.01930	.00432	-.08779	-.01550	.00457	.00021	.00000	.08558
-10.006	791.630	.02047	.03310	-4.97810	.00367	-.08385	-.01833	.00449	.00055	-.00005	.08583
-10.004	991.530	.00072	.00503	-4.97390	.00330	-.05312	-.01581	.00486	.00057	-.00006	.09359
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARATIN FROM ORB (04RC1) (AVK050) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2429/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.080	170.000	-.00147	-.17810	-.03335	-.00414	-.09719	.00449	.00326	.00120	.00031	.08431
-4.990	191.280	.05602	-.26870	.05604	.00072	-.09545	.01073	.00499	.00045	.00020	.08993
-4.997	241.340	.01061	-.24378	.04725	-.00120	-.09041	.01323	.00362	.00066	.00019	.08797
-4.981	290.890	-.01430	-.04294	.05913	.00300	-.08864	.02261	.00388	.00011	.00018	.09347
-4.977	390.590	-.03526	-.06795	.05922	.00221	-.07608	.03258	.00567	-.00074	.00014	.10289
-4.999	491.260	-.02080	.01218	.03224	.00184	-.04762	.02513	.00546	-.00062	.00014	.10388
-5.031	591.790	.00470	-.00459	-.00459	.00092	-.00740	.00203	.00420	-.00001	-.00004	.08599
-5.014	691.450	-.04021	.02045	.01363	.00242	-.00613	.00113	.00436	.00018	-.00006	.08800
-5.005	791.420	.06275	-.17418	.02443	-.00009	-.00553	.00136	.00423	.00026	-.00007	.08931
-5.009	991.390	.02806	-.05523	.02058	.00050	-.00534	.00094	.00427	.00028	-.00006	.09048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2435/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.012	40.944	.77012	-.20645	5.02910	-.00337	.05535	.00568	.00527	.00070	.00004	.07965
-.048	93.120	.01375	-.18341	4.99480	-.00101	.00335	.00433	.00611	.00101	.00011	.08116
-.000	141.630	.03873	.57480	5.03930	.01153	-.02146	.01595	.00600	.00058	.00012	.08294
.013	191.190	.05000	.04916	5.05820	.00516	-.03034	.02793	.00783	-.00030	.00021	.08954
.036	290.230	.07654	-.07667	5.07630	.00370	-.01691	.04368	.00662	-.00139	.00001	.09961
-.006	391.090	.10343	.02262	5.02870	.00355	.01358	.03531	.00531	-.00177	.00003	.09859
-.030	491.470	.12639	-.25675	4.99940	-.00353	.04766	.01977	.00268	-.00036	-.00007	.08692
-.008	591.300	.04849	.39785	5.01820	.00799	.04854	.01833	.00325	-.00039	-.00008	.08852
-.014	791.260	.08526	.26033	5.01580	.00479	.04998	.01833	.00346	-.00003	-.00008	.08970
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2441/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.089	-53.615	2.20770	-.35187	10.10300	-.00236	.13609	.02398	.00593	-.00149	-.00015	.08137
4.954	15.658	-.03510	-.45368	9.97280	-.00743	.10136	.01771	.01368	-.00091	-.00000	.08444
4.985	50.579	-.03001	-.00065	9.99220	-.00178	.04808	.02313	.00535	.00055	.00008	.08688
5.019	99.005	.12006	-.14020	10.05200	.00276	.03139	.04159	.00593	-.00041	-.00015	.09352
5.019	153.530	.13182	.02378	10.03100	.00777	.04885	.05442	.00662	-.00243	.00016	.10038
4.991	293.550	.03034	.07063	10.02000	.00206	.03426	.04439	.00421	-.00156	.00002	.09259
4.986	399.110	.14481	.21840	10.01700	.00449	.11395	.03490	.00249	-.00078	-.00007	.09079
4.990	479.170	.03498	.20693	10.01700	.00546	.11388	.03450	.00208	-.00086	-.00008	.09048
	GRADIENT	-.00224	-.02897	.63691	-.00047	.00647	.00113	.00087	-.00006	-.00000	.00539

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK051) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2415/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-9.997	317.060	.05495	-.04869	.00179	.54287	.02086	-.00982	-.00065	.00095	.00158	.23442
-10.027	342.040	.05695	.01072	.00019	.50548	.01783	-.00976	-.00036	.00107	-.00257	.23445
-9.984	390.650	-.18490	.20759	.00459	.45639	.00834	-.00919	-.00043	.00058	-.01258	.23412
-9.985	441.160	-.02724	.00135	.00204	.41698	.00677	-.00838	-.00050	.00034	-.01796	.23390
-9.981	491.240	-.04807	.07421	.00345	.40791	.00500	-.00855	-.00049	.00005	-.01746	.23390
-10.003	591.340	.02129	-.01463	.00334	.37444	.00701	-.00934	-.00040	-.00003	-.01557	.23320
-10.044	691.920	.12713	.08033	.00033	.33301	.00572	-.00930	-.00036	-.00000	-.01851	.23385
-10.007	791.610	-.03043	.27937	.00302	.30473	.01112	-.00920	-.00041	-.00032	-.01995	.23446
-9.999	991.480	.08220	-.00201	.00204	.29762	01342	-.00928	-.00037	-.00022	-.01792	.25426
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2420/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	MM
-5.033	992.480	-.14052	.04222	.00155	.29518	01334	-.00931	-.00035	-.00023	-.01616	.23442
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04FC1) W/ET SEPARATING (SVK051) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2415/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.997	317.060	5.04790	.00031	.00179	.21050	.03178	.04542	-.00245	-.00159	.00099
-10.027	342.040	5.04550	-.00006	.00019	.17272	.02876	.04132	-.00239	-.00130	.00112
-9.984	390.880	5.03750	-.00013	.00459	.12379	.01927	.03129	-.00182	-.00137	.00062
-9.985	441.160	5.03030	-.00009	.00204	.08381	.01771	.02691	-.00159	-.00144	.00039
-9.981	491.240	5.02730	-.00012	.00345	.07463	.01595	.02649	-.00158	-.00143	.00009
-10.003	591.340	5.02790	-.00019	.00334	.04117	.01796	.02838	-.00196	-.00134	.00001
-10.044	691.980	5.02510	-.00026	.00033	.00480	.01658	.02546	-.00192	-.00130	.00004
-10.007	791.610	5.02810	-.00015	.00502	-.02883	.02209	.02415	-.00181	-.00135	-.00027
-9.999	991.460	5.02970	-.00016	.00204	-.03837	.02439	.02613	-.00188	-.00131	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2420/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.033	992.480	5.02975	-.00018	.00155	-.03593	.02422	.02751	-.00197	-.00128	-.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R2I) W/ET SEPARATING (TVK051) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2415/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.897	317.060	.05453	-.04869	-.04948	-.16145	439.85000	.00000	.00000	658.44000	.00000	.00000
-10.027	342.040	.05595	.01072	-.15398	-.31247	440.48000	.00000	.00000	659.21000	.00000	.00000
-9.984	390.660	-.18490	.20758	.17643	.22124	440.26000	.00000	.00000	659.65000	.00000	.00000
-9.985	441.150	-.02724	.00135	.02553	-.03518	440.36000	.00000	.00000	659.04000	.00000	.00000
-9.981	491.240	-.04807	.07421	.00723	-.07117	441.10000	.00000	.00000	660.14000	.00000	.00000
-10.003	591.340	.02129	-.01463	.01209	-.03303	441.14000	.00000	.00000	660.21000	.00000	.00000
-10.044	691.520	.12713	.03793	.02094	-.05003	441.34000	.00000	.00000	660.50000	.00000	.00000
-10.007	791.610	-.03043	.27207	.05031	-.01315	441.67000	.00000	.00000	661.00000	.00000	.00000
-9.999	991.480	.00220	-.00501	.02931	-.02891	442.10000	.00000	.00000	661.64000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2420/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.033	992.480	-.14052	.04222	.01795	-.01430	438.35000	.00000	.00000	656.04000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4R:1) W/ET SEPARATING (UVK051) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2415/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.997	317.050	976.59000	976.59000	80.00000	976.59000	976.38000	65.00000	72.00000	36.78900	99.76800
-10.027	342.040	976.76000	976.76000	80.00000	976.76000	976.38000	65.00000	72.00000	39.56700	99.76800
-9.984	390.630	976.29000	976.29000	80.00000	976.29000	976.38000	65.00000	72.00000	38.60200	99.76800
-9.995	441.160	976.02000	976.02000	80.00000	976.02000	976.38000	65.00000	72.00000	32.18100	99.76800
-9.981	491.240	976.19000	976.19000	80.00000	976.19000	976.38000	65.00000	72.00000	26.98300	99.76800
-10.003	591.340	975.80000	975.80000	80.00000	975.80000	976.38000	65.00000	72.00000	22.40700	99.76800
-10.044	691.980	975.74000	975.74000	80.00000	975.74000	976.38000	65.00000	72.00000	19.65900	99.76800
-10.007	791.610	975.93000	975.93000	80.00000	975.95000	976.38000	65.00000	72.00000	17.03200	99.76800
-9.999	991.480	976.45000	976.45000	80.00000	976.45000	976.38000	65.00000	72.00000	12.61600	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2420/ 0 RN/L = .86 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.033	992.480	976.42000	976.42000	78.00000	976.42000	976.21000	79.00000	72.00000	-3.80330	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK051) (1- MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2415/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.997	317.060	.05495	-.04839	-4.94890	.00211	-.22910	.03968	.01081	-.00189	.00062	.10393
-10.027	342.040	.05385	.01072	-4.93550	.00013	-.18144	.01765	.00824	-.00056	.00040	.09530
-9.934	350.850	-.18490	.20728	-4.93170	.00447	-.15535	.01467	.00637	-.00045	.00021	.09578
-9.985	441.160	-.02724	.00135	-4.93500	.00195	-.14597	.01720	.00676	-.00064	.00016	.09928
-9.981	491.240	-.04807	.07421	-4.95360	.00333	-.14724	.02356	.00708	-.00096	.00016	.10669
-10.003	591.340	.02129	-.01463	-4.97510	.00315	-.12120	.01726	.00814	-.00147	.00037	.11022
-10.044	691.980	.12713	.08033	-5.01890	.00006	-.06729	-.01271	.00516	.00028	-.00001	.08853
-10.007	791.610	-.03543	.27897	-4.97890	.00487	-.06238	-.01563	.00519	.00067	-.00006	.09029
-9.999	991.480	.00220	-.00501	-4.99930	.00168	-.06253	-.01548	.00499	.00064	-.00006	.09287
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2420/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.033	992.480	-.14052	.04222	-.00335	.00137	-.00536	.00080	.00424	.00026	-.00007	.09150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2744/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-20.044	625.470	200.27000	.16751	.00331	.61704	-.03863	.00283	-.00111	.00334	-.04028	.23302
-20.046	700.240	200.38000	.13851	.00274	.50925	-.03537	.00227	-.00092	.00203	-.04996	.23325
-20.018	799.710	200.10000	-.01758	.00105	.39216	-.01783	.00185	-.00099	.00095	-.05090	.23333
-20.013	909.500	199.93000	.18138	.00401	.22039	.01189	-.00003	-.00059	.00029	-.03790	.23351
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK052) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DSETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2748/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-15.502	499.750	200.07000	-.20669	-.00110	.53752	-.02234	.00245	-.00103	.00130	-.03758	.23729
-15.532	550.080	200.22000	-.08576	-.00011	.46025	-.01605	.00229	-.00100	.00058	-.04086	.24163
-15.529	600.020	200.20000	-.00830	.00147	.42412	-.01603	.00189	-.00097	.00079	-.03933	.17122
-15.464	699.110	200.01000	.07406	.00385	.38038	.00333	-.00029	-.00084	.00082	-.04208	.23350
-15.474	799.070	200.01000	.37333	.00034	.28514	.00978	.00003	-.00005	.00017	-.03938	.23430
-15.511	999.300	199.80000	.23009	.00475	.28017	.01193	-.00044	-.00089	.00031	-.03955	.23377
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-9.975	317.020	200.03000	-.04312	.00392	.53783	-.00459	-.00745	-.00057	.00069	-.01710	.23402
-9.991	342.130	199.93000	-.16165	.00169	.48069	-.00059	-.00039	-.00042	.00024	-.01515	.23366
-10.003	391.630	199.97000	.15134	.00537	.41005	.00030	-.00029	-.00048	-.00010	-.01423	.23325
-10.021	442.160	200.10000	1.01810	.01803	.31046	.00059	-.00007	-.00025	-.00003	-.01304	.23321
-10.013	492.580	200.16000	.33110	.00405	.33133	.00777	-.00008	-.00037	.00001	-.01390	.23305
-9.990	591.370	200.00000	.10315	.00374	.33003	.00423	-.00012	-.00035	.00002	-.01397	.23303
-9.976	691.290	199.93000	-.13185	.00165	.30203	.01003	-.00031	-.00037	-.00034	-.01357	.23345
-10.003	791.550	199.92000	-.12500	.00121	.28377	.01333	-.00020	-.00032	-.00022	-.01651	.23327
-10.001	991.430	199.88000	-.13023	.00035	.28370	.01345	-.00014	-.00033	-.00022	-.01620	.23330
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2430/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DSETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.021	167.090	200.09000	-.00548	.00351	.42110	.02713	-.00872	-.00058	.00011	-.00380	.23109
-5.024	192.240	200.02000	.11578	.00303	.42705	.02311	-.00030	-.00035	-.00002	-.00703	.23065
-5.031	242.270	200.07000	-.12203	.00002	.39332	.01900	-.00030	-.00022	.00033	-.01068	.22522
-5.039	292.490	200.02000	-.11003	-.00071	.35122	.01913	-.00030	-.00028	-.00010	-.01379	.22023
-5.021	392.220	200.01000	.19277	.00031	.33102	.01404	-.00009	-.00030	-.00004	-.01209	.22024
-4.979	491.320	199.92000	.18717	.00021	.33014	.00005	-.00005	-.00033	-.00011	-.01458	.22979
-4.993	591.320	200.00000	-.20002	.00009	.31783	.01004	-.00007	-.00032	-.00005	-.01835	.22857
-5.010	691.540	200.04000	.08031	.00314	.30034	.01214	-.00007	-.00030	-.00005	-.01911	.22970
-5.009	791.430	200.05000	-.03315	.00163	.28031	.01303	-.00002	-.00039	-.00023	-.01722	.22947
-5.009	991.330	199.90000	.16755	.00422	.29732	.01338	-.00006	-.00029	-.00023	-.01734	.23064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (RVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2436/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-.016	12.783	200.12000	.91899	.01340	.33492	.02660	-.01122	-.00035	-.00008	-.00268	.23470
-.003	41.253	200.14000	-.29514	.00108	.30324	.02634	-.01095	-.00030	-.00008	-.00164	.23426
-.036	92.229	200.08000	-.43350	-.00326	.35434	.03366	-.01093	-.00006	-.00055	-.00395	.23406
-.035	142.200	200.09000	-.07947	.00009	.35377	.02794	-.00923	-.00059	-.00012	-.00839	.23464
-.056	192.650	200.05000	-.23149	-.00339	.35027	.02404	-.00990	-.00027	.00017	-.01410	.23470
-.031	292.310	200.12000	-.08424	.00049	.34219	.01693	-.00827	-.00045	-.00014	-.01453	.23447
.013	391.310	200.03000	.07362	.00402	.35757	.01107	-.00953	-.00040	-.00003	-.01529	.23417
.006	491.290	200.10000	-.22403	.00073	.34027	.00659	-.00943	-.00039	-.00012	-.01767	.23429
-.006	591.330	200.07000	-.08392	.00087	.30511	.01165	-.00945	-.00041	-.00037	-.01995	.23455
-.010	791.340	200.07000	.01787	.00234	.29902	.01336	-.00941	-.00036	-.00024	-.01790	.23441
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2442/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
5.069	-53.371	200.18000	.00351	.00333	.25663	.00123	-.01183	-.00016	-.00050	-.01359	.23469
4.974	14.868	200.00000	.14138	.00305	.30987	.02675	-.01375	-.00192	-.00017	-.00115	.23428
4.995	50.183	200.05000	-.49455	-.00502	.32084	.02740	-.01090	.00001	-.00054	-.00608	.23434
4.937	100.870	199.92000	-.17817	-.00203	.32539	.02833	-.00958	-.00045	-.00017	-.00957	.23427
4.959	200.180	199.96000	-.13765	-.00191	.32043	.02055	-.00932	-.00041	-.00014	-.01373	.23424
4.995	299.540	200.16000	.03472	.00572	.33385	.01406	-.00931	-.00025	-.00003	-.01243	.23332
4.991	399.450	200.04000	-.32937	-.00155	.33759	.00779	-.00930	-.00035	-.00014	-.01416	.23370
4.987	479.380	199.95000	.35909	.00971	.30848	.00906	-.00946	-.00036	-.00012	-.01678	.23364
	GRADIENT	13.45171	.00951	.00021	.02083	.00180	-.00092	-.00013	-.00001	-.00008	.01576

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-DSA (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK052) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2744/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.044	625.470	4.99300	-.00020	.00331	.28411	-.02769	.00363	.01021	-.00204	.00338
-20.046	700.340	4.99400	-.00039	.00274	.17389	-.02545	-.00612	.00934	-.00185	.00207
-20.018	799.710	5.00800	-.00008	.00105	.05857	-.00598	-.00705	.00933	-.00193	.00089
-20.013	999.500	5.02600	-.00011	.00401	-.04381	.02283	.00599	.00734	-.00152	.00034
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2748/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.502	499.750	5.00900	-.00007	-.00110	.20747	-.01149	.00595	.00976	-.00196	.00143
-15.532	550.080	5.01100	-.00002	-.00011	.13309	-.00510	.00229	.00954	-.00192	.00063
-15.529	600.020	5.00900	-.00004	.00147	.10329	-.00549	.00298	.00909	-.00187	.00093
-15.464	699.110	5.02200	-.00016	.00525	-.01094	.01428	.00165	.00705	-.00157	.00056
-15.474	799.070	5.02700	-.00006	.00834	-.03576	.02069	.00409	.00738	-.00159	.00021
-15.511	999.300	5.02800	-.00019	.00475	-.04295	.02284	.00525	.00692	-.00153	.00035
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2424/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.975	317.020	5.02480	-.00005	.00292	.20732	.00627	.02649	-.00012	-.00160	.00074
-9.981	342.130	5.02570	-.00025	.00169	.14998	.01027	.02645	-.00126	-.00136	.00028
-10.003	391.690	5.02900	-.00013	.00287	.06548	.01745	.02936	-.00135	-.00139	-.00005
-10.021	442.160	5.03020	-.00032	.01606	.06275	.01926	.02978	-.00174	-.00120	.00001
-10.018	492.390	5.03840	-.00021	.00498	.05084	.01834	.02902	-.00176	-.00130	.00005
-9.990	591.370	5.02420	-.00029	.00374	.02307	.01510	.02776	-.00179	-.00128	.00006
-9.978	691.290	5.02780	-.00020	.00155	-.02032	.02170	.02507	-.00158	-.00130	-.00030
-10.003	791.550	5.03020	-.00021	.00121	-.03537	.02421	.02716	-.00187	-.00125	-.00018
-10.001	991.430	5.03010	-.00020	.00035	-.03582	.02433	.02749	-.00180	-.00126	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA221,ORBITER(ORC1) W/ET SEPARATING (SVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2430/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.021	167.090	5.04766	.00030	.00351	.09114	.03791	.03945	-.00245	-.00151	.00015
-5.024	192.240	5.04426	.00018	.00389	.09121	.03391	.03831	-.00102	-.00147	.00002
-5.031	242.270	5.03902	-.00021	.00002	.06197	.02933	.03257	-.00230	-.00115	.00037
-5.039	292.460	5.03347	-.00017	-.00071	.03187	.02689	.02978	-.00168	-.00121	-.00005
-5.021	392.290	5.03283	-.00021	.00281	.03139	.02491	.03071	-.00175	-.00123	.00001
-4.978	491.320	5.02866	-.00027	.00521	.02132	.01782	.02805	-.00192	-.00126	-.00007
-5.008	591.320	5.02531	-.00028	.00009	-.01129	.01922	.02634	-.00173	-.00125	-.00001
-5.010	691.540	5.02049	-.00024	.00314	-.03100	.02303	.02569	-.00173	-.00124	-.00021
-5.009	791.460	5.02957	-.00023	.00189	-.03124	.02447	.02569	-.00166	-.00124	-.00018
-5.009	991.330	5.02959	-.00024	.00422	-.03137	.02451	.02654	-.00169	-.00123	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2436/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.016	12.783	5.04500	.00005	.01340	-.00105	.03951	.04150	-.00380	-.00130	-.00004
-.003	41.253	5.04148	-.00004	.00108	-.03237	.03737	.04262	-.00352	-.00124	-.00003
-.036	92.229	5.04546	-.00020	-.00326	.01130	.04369	.04033	-.00351	-.00101	-.00050
-.036	142.200	5.04542	.00027	.00098	.02109	.03397	.03538	-.00179	-.00153	-.00008
-.056	192.650	5.04163	-.00011	-.00339	.01155	.03507	.03017	-.00246	-.00122	.00021
-.031	292.310	5.03857	-.00000	.00049	.00147	.02936	.02974	-.00183	-.00139	-.00009
.013	391.310	5.03025	-.00014	.00402	.02157	.02211	.02803	-.00219	-.00135	.00001
.006	491.290	5.03381	-.00021	.00073	.00131	.01803	.02354	-.00198	-.00134	-.00007
-.006	591.330	5.02841	-.00014	.00007	-.03106	.02270	.02439	-.00200	-.00136	-.00033
-.010	791.340	5.02697	-.00017	.00294	-.03157	.02469	.02637	-.00197	-.00131	-.00019
	GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000

RUN NO. 2442/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.069	-53.371	5.01680	-.00051	.00333	-.07358	01209	.02997	-.00451	-.00109	-.00046
4.974	14.858	5.04320	.00182	.00305	-.02120	.03759	.04236	-.00644	-.00295	-.00013
4.996	50.183	5.04400	-.00035	-.00502	-.00162	.03319	.03724	-.00362	-.00091	-.00049
4.937	100.870	5.04400	.00014	-.00203	-.00130	.03755	.03351	-.00234	-.00137	-.00013
4.969	200.180	5.03850	.00000	-.00191	-.00343	.03125	.02995	-.00210	-.00133	-.00010
4.996	299.540	5.03290	-.00013	.00672	.01288	.02471	.03030	-.00213	-.00128	.00001
4.991	399.450	5.02730	-.00022	-.00155	.01154	.01844	.02857	-.00242	-.00127	-.00010
4.987	479.330	5.02700	-.00020	.00871	-.01985	.01971	.02600	-.00227	-.00128	-.00008
	GRADIENT	.33920	.00012	.00021	-.00136	.00253	.00285	-.00043	-.00019	-.00001

V41B-D9A (IA22),ORBITER(ORC1) W/ET SEPARATING (TVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2704/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.044	625.470	200.27000	.16751	.04045	-.15409	440.70000	.00000	.00000	659.54000	.00000	.00000
-20.046	700.340	200.33000	.13851	-.02470	-.20031	439.54000	.00000	.00000	658.41000	.00000	.00000
-20.018	799.710	200.10000	-.01758	.04542	-.03327	440.11000	.00000	.00000	658.65000	.00000	.00000
-20.013	899.500	199.90000	.19138	.05234	-.07648	440.53000	.00000	.00000	659.29000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2748/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.502	499.750	200.07000	-.20699	.03133	-.12856	436.00000	.00000	.00000	653.85000	.00000	.00000
-15.522	550.090	200.22000	-.05576	.05573	-.04027	433.00000	.00000	.00000	648.11000	.00000	.00000
-15.528	600.020	200.23000	-.00800	.01502	-.11041	424.80000	.00000	.00000	635.59000	.00000	.00000
-15.464	699.110	200.01000	.07486	.03038	-.00757	438.94000	.00000	.00000	656.91000	.00000	.00000
-15.474	799.070	200.01000	.37363	.03762	-.04571	439.33000	.00000	.00000	657.50000	.00000	.00000
-15.511	999.300	199.85000	.23089	.04491	-.05127	439.63000	.00000	.00000	657.94000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2424/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.975	317.020	200.03000	-.04312	-.04910	-.16584	+37.49000	.00000	.00000	654.74000	.00000	.00000
-9.931	342.130	199.93000	-.16165	.00374	-.08591	+37.65000	.00000	.00000	654.93000	.00000	.00000
-10.003	391.880	199.93000	.15134	.02917	-.02767	+37.57000	.00000	.00000	654.86000	.00000	.00000
-10.021	442.160	200.10000	1.01610	.00492	-.06041	+37.75000	.00000	.00000	655.14000	.00000	.00000
-10.018	492.390	200.12000	.32118	.01502	-.03577	+37.73000	.00000	.00000	655.11000	.00000	.00000
-9.930	591.370	200.00000	.15515	-.00532	-.05750	+37.83000	.00000	.00000	655.32000	.00000	.00000
-9.976	691.290	199.93000	-.13125	.01614	-.00818	+37.93000	.00000	.00000	655.47000	.00000	.00000
-10.003	791.550	199.92000	-.12300	.01835	-.00477	+39.33000	.00000	.00000	656.00000	.00000	.00000
-10.001	891.430	199.83000	-.13523	.01978	-.00377	+38.44000	.00000	.00000	656.16000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2430/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.021	167.090	200.09000	-.00548	.01483	-.03092	+34.12000	.00000	.00000	649.69000	.00000	.00000
-5.024	192.240	200.02000	.11578	.01378	-.03542	+35.03000	.00000	.00000	651.05000	.00000	.00000
-5.031	242.270	200.07000	-.12266	.00316	-.04762	+36.10000	.00000	.00000	652.66000	.00000	.00000
-5.039	292.460	200.06000	-.11998	.04429	.03378	+37.26000	.00000	.00000	654.42000	.00000	.00000
-5.021	392.280	200.03000	.19277	.00316	-.02708	+37.53000	.00000	.00000	654.81000	.00000	.00000
-4.978	491.380	199.93000	.16717	-.00338	-.04701	+37.80000	.00000	.00000	655.33000	.00000	.00000
-4.988	591.320	200.08000	-.20992	.03037	.02123	+38.50000	.00000	.00000	656.25000	.00000	.00000
-5.010	691.540	200.04000	.02631	.01432	-.00032	+38.60000	.00000	.00000	656.40000	.00000	.00000
-5.009	791.460	200.05000	-.05315	.01894	-.00702	+38.67000	.00000	.00000	658.00000	.00000	.00000
-5.009	991.330	199.98000	.18786	.01835	-.00027	+40.33000	.00000	.00000	659.07000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2436/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.016	12.783	200.12000	.91899	.01103	.01157	+43.40000	.00000	.00000	663.59000	.00000	.00000
-.003	41.253	200.14000	-.28314	.01700	.01354	+44.28000	.00000	.00000	664.65000	.00000	.00000
-.035	92.229	200.02000	-.43650	.01650	.01997	+44.42000	.00000	.00000	665.11000	.00000	.00000
-.036	142.200	200.08000	-.07847	.00428	-.00077	+44.38000	.00000	.00000	665.00000	.00000	.00000
-.056	192.660	200.05000	-.23149	.02135	.02843	+44.37000	.00000	.00000	665.04000	.00000	.00000
-.031	292.310	200.12000	-.03424	.00092	.00047	+44.40000	.00000	.00000	665.03000	.00000	.00000
.013	391.310	200.03000	.07552	-.00194	-.01976	+44.76000	.00000	.00000	666.62000	.00000	.00000
.008	491.250	200.10000	-.22403	-.01053	-.03297	+44.71000	.00000	.00000	665.83000	.00000	.00000
-.006	591.330	200.07000	-.00252	.00539	.00710	+44.63000	.00000	.00000	665.53000	.00000	.00000
-.010	791.340	200.07000	.01787	.00732	.01037	+44.38000	.00000	.00000	665.02000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2442/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.069	-53.371	200.18000	.00351	-.01308	.04822	+37.23000	.00000	.00000	654.35000	.00000	.00000
4.974	14.838	200.00000	.14138	-.01244	.04704	+37.65000	.00000	.00000	653.49000	.00000	.00000
4.986	50.183	200.05000	-.48455	-.01307	.04803	+34.78000	.00000	.00000	650.69000	.00000	.00000
4.937	100.870	199.93000	-.17817	-.01007	.04837	+32.43000	.00000	.00000	647.17000	.00000	.00000
4.969	200.180	199.98000	-.13765	-.01628	.04012	+31.33000	.00000	.00000	645.82000	.00000	.00000
4.996	299.540	200.16000	.09472	-.02435	.02193	+28.84000	.00000	.00000	641.80000	.00000	.00000
4.991	399.450	200.04000	-.20837	-.03026	-.00332	+28.83000	.00000	.00000	641.83000	.00000	.00000
4.987	479.380	199.95000	.35909	-.00573	.05554	+29.31000	.00000	.00000	642.50000	.00000	.00000
	GRADIENT	13.45171	.00951	-.00034	.00316	29.36844	.00000	.00000	43.95278	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2744/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-20.044	625.470	975.79000	975.79000	88.00000	975.790[0	975.71999	74.00000	77.00000	17.28800	99.51600
-20.046	700.340	976.05000	976.05000	88.00000	976.050[0	975.71999	74.00000	77.00000	12.12100	99.51600
-20.018	799.710	975.95000	975.95000	88.00000	975.950[0	975.71999	74.00000	77.00000	8.30330	99.51600
-20.013	999.500	975.91000	975.91000	88.00000	975.910[0	975.71999	74.00000	77.00000	11.61800	99.51600
	GRADIENT	.00000	.00000	.00000	.000[0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2748/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-15.502	499.750	975.08000	975.08000	88.00000	975.080[0	979.55559	10.00000	78.00000	9.53570	99.64200
-15.532	550.080	935.08000	935.08000	88.00000	935.080[0	979.55559	10.00000	78.00000	5.20630	99.64200
-15.529	600.020	948.31000	948.31000	88.00000	948.310[0	979.55559	10.00000	78.00000	3.64490	99.64200
-15.464	699.110	979.65000	979.65000	88.00000	979.650[0	979.55559	10.00000	78.00000	3.08830	99.64200
-15.474	799.070	930.05000	930.05000	88.00000	930.050[0	979.55559	10.00000	78.00000	5.32450	99.64200
-15.511	999.300	979.73000	979.73000	88.00000	979.730[0	979.55559	10.00000	78.00000	8.19540	99.64200
	GRADIENT	.00000	.00000	.00000	.000[0	.00000	.00000	.00000	.00000	.00000

RUN NO. 2424/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.975	317.020	974.48000	974.48000	81.00000	974.480[0	976.39000	66.00000	72.00000	16.99000	99.76800
-9.931	342.130	974.65000	974.65000	81.00000	974.650[0	976.39000	66.00000	72.00000	9.55220	99.76800
-10.003	391.630	975.15000	975.15000	81.00000	975.150[0	976.39000	66.00000	72.00000	5.13330	99.76800
-10.021	442.160	975.09000	975.09000	81.00000	975.090[0	976.39000	66.00000	72.00000	2.63490	99.76800
-10.018	492.390	975.52000	975.52000	81.00000	975.520[0	976.39000	66.00000	72.00000	2.24630	99.76800
-9.950	591.370	975.36000	975.36000	81.00000	975.360[0	976.39000	66.00000	72.00000	1.49790	99.76800
-9.976	691.290	976.06000	976.06000	81.00000	976.060[0	976.39000	66.00000	72.00000	1.48280	99.76800
-10.003	791.550	976.37000	976.37000	81.00000	976.370[0	976.39000	66.00000	72.00000	3.50020	99.76800
-10.001	991.430	976.60000	976.60000	81.00000	976.600[0	976.39000	66.00000	72.00000	6.19590	99.76800
	GRADIENT	.00000	.00000	.00000	.000[.0	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(041C1) W/ET SEPARATING (UVK052) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DSETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMELDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2430/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP2AL	TB1	TB2	DT	T
-5.021	167.090	977.34000	977.34000	79.00000	977.34000	977.67000	64.00000	73.00000	2.09300	99.76800
-5.024	192.240	977.42000	977.42000	79.00000	977.42000	977.67000	64.00000	73.00000	1.60910	99.76200
-5.031	242.270	977.42000	977.42000	79.00000	977.42000	977.67000	64.00000	73.00000	.07401	99.75900
-5.038	292.460	977.14000	977.14000	79.00000	977.14000	977.67000	64.00000	73.00000	-1.21810	99.76800
-5.021	392.280	977.00000	977.00000	79.00000	977.00000	977.67000	64.00000	73.00000	-1.53460	99.76500
-4.978	491.380	977.02000	977.02000	79.00000	977.02000	977.67000	64.00000	73.00000	-3.08720	99.76800
-4.999	591.320	977.22000	977.22000	79.00000	977.22000	977.67000	64.00000	73.00000	-4.32550	99.76300
-5.010	691.540	977.02000	977.02000	79.00000	977.02000	977.67000	64.00000	73.00000	-3.92250	99.76800
-5.009	791.480	977.32000	977.32000	79.00000	977.32000	977.67000	64.00000	73.00000	-3.02020	99.76300
-5.009	991.320	977.02000	977.02000	79.00000	977.02000	977.67000	64.00000	73.00000	-2.05310	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2436/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP2AL	TB1	TB2	DT	T
-.016	12.783	977.37000	977.37000	79.00000	977.37000	977.63000	64.00000	72.00000	-2.74680	99.76800
-.003	41.283	977.22000	977.22000	79.00000	977.22000	977.30000	64.00000	72.00000	-1.94610	99.76300
-.036	92.289	977.18000	977.18000	79.00000	977.18000	977.30000	64.00000	72.00000	-.33932	99.76800
-.036	142.200	977.42000	977.42000	79.00000	977.42000	977.30000	64.00000	72.00000	.50526	99.76800
-.056	192.630	977.54000	977.54000	79.00000	977.54000	977.30000	64.00000	72.00000	1.12030	99.76300
-.031	292.310	977.10000	977.10000	79.00000	977.10000	977.30000	64.00000	72.00000	2.51310	99.76800
.013	391.310	977.41000	977.41000	79.00000	977.41000	977.30000	64.00000	72.00000	2.06410	99.76800
.006	491.280	977.30000	977.30000	79.00000	977.30000	977.30000	64.00000	72.00000	-.80845	99.76300
-.006	591.330	977.42000	977.42000	79.00000	977.42000	977.30000	64.00000	72.00000	-3.14510	99.76800
-.010	791.340	977.51000	977.51000	79.00000	977.51000	977.30000	64.00000	72.00000	-1.13290	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2442/ 0 RN/L = .83 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLP8AL	TB1	TB2	DT	T
5.069	-53.371	977.30000	977.30000	78.00000	977.30000	974.10000	64.00000	72.00000	-2.97450	99.89400
4.974	14.869	977.46000	977.46000	78.00000	977.46000	974.10000	64.00000	72.00000	-1.74590	99.89400
4.933	50.183	977.60000	977.60000	78.00000	977.60000	974.10000	64.00000	72.00000	-.66798	99.89400
4.937	100.870	978.04000	978.04000	78.00000	978.04000	974.10000	64.00000	72.00000	.42014	99.89400
4.939	200.180	978.03000	978.03000	78.00000	978.03000	974.10000	64.00000	72.00000	1.21820	99.89400
4.998	299.540	974.20000	974.20000	78.00000	974.20000	974.10000	64.00000	72.00000	1.40330	99.89400
4.991	399.450	974.40000	974.40000	78.00000	974.40000	974.10000	64.00000	72.00000	.51691	99.89400
4.987	479.380	974.31000	974.31000	78.00000	974.31000	974.10000	64.00000	72.00000	-.48231	99.89400
	GRADIENT	65.74253	65.74253	5.24617	65.74253	65.51654	4.30455	4.84262	-.11743	6.71872

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK052) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMSLOR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2744/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.044	625.470	200.27000	.16751	-15.04800	.00311	-.34047	-.00232	.01410	-.00065	.00044	.10513
-20.045	700.340	200.33000	.13661	-15.05200	.00234	-.34423	.00036	.01467	-.00137	.00024	.12679
-20.018	799.710	200.10000	-.01753	-15.01200	.00097	-.35438	.00843	.01462	-.00217	.00044	.14843
-20.013	909.500	199.[illegible]0000	.18138	-14.[illegible]800	.00309	-.21033	-.03054	.00332	.00112	-.00001	.10544
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2748/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.502	489.750	200.07000	-.20389	-10.49300	-.00118	-.23320	.00346	.01078	-.00015	.00026	.10439
-15.532	550.080	200.22000	-.08376	-10.52100	-.00013	-.23718	-.00203	.01182	-.00087	.00017	.10890
-15.529	600.020	200.23000	-.00030	-10.52000	.00194	-.24058	.00000	.01204	-.00111	.00010	.11479
-15.464	659.110	200.01000	.07406	-10.44800	.00510	-.24097	.02172	.01213	-.00133	.00008	.13074
-15.474	759.070	200.01000	.37693	-10.44700	.00287	-.10805	-.00787	.00351	.00025	.00001	.11323
-15.511	909.300	199.[illegible]1000	.[illegible]0103	-10.[illegible]770	.00[illegible]63	-.14003	-.03111	.00731	.00123	-.00019	.[illegible]0048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2424/ 0 RN/L = .66 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.975	317.020	200.03000	-.04312	-4.[illegible]080	.00287	-.23226	.03737	.00809	-.00207	.00069	.11896
-9.991	342.130	199.[illegible]500	-.16185	-4.[illegible]120	.00144	-.18[illegible]3	.01746	.00746	-.00031	.00029	.10407
-10.003	391.630	199.[illegible]3000	.15154	-4.[illegible]7400	.00274	-.15193	.00[illegible]9	.00[illegible]0	.00007	.00022	.09371
-10.021	442.160	200.10500	1.01510	-4.[illegible]1100	.01574	-.14403	.00[illegible]3	.00337	-.00019	.00018	.[illegible]0333
-10.018	492.390	200.12000	.32118	-4.[illegible]1150	.00474	-.14837	.01459	.00[illegible]9	-.00051	.00012	.10155
-9.950	591.370	200.00000	.15515	-4.95040	.00244	-.14091	.02307	.00702	-.00120	.00021	.11318
-9.976	691.290	199.[illegible]3000	-.13125	-4.[illegible]4820	.00135	-.[illegible]0[illegible]5	-.00039	.00202	.00015	.00015	.09[illegible]39
-10.003	791.550	199.92000	-.12300	-4.97220	.00100	-.00213	-.01575	.00493	.00037	-.00006	.[illegible]0048
-10.001	991.430	199.[illegible]2000	-.13323	-4.97050	.00015	-.[illegible]2340	-.01548	.00481	.00086	-.00005	.09222
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK052) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMELDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2430/ 0 RN/L = .85 GRAD ENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.021	167.090	200.08000	-.00548	.02316	.00382	-.11082	.00463	.00832	.00013	.00043	.09531
-5.024	192.240	200.08000	.11578	.02037	.00406	-.11626	.00344	.00876	.00054	.00033	.09422
-5.031	242.270	200.07000	-.12205	.00042	-.00019	-.02283	.00870	.00000	.00057	.00014	.08738
-5.039	292.460	200.03000	-.11939	-.00213	-.00003	-.02336	.01416	.00446	.00010	.00007	.09308
-5.021	392.280	200.02000	.10277	.01143	.00240	-.07403	.05448	.00443	-.00035	.00007	.00349
-4.978	491.330	199.92000	.10717	.04056	.00484	-.00003	.03102	.00033	-.00031	.00013	.10207
-4.988	591.320	200.00000	-.20032	.03731	.00042	-.02332	.01043	.00512	-.00024	-.00007	.09367
-5.010	691.540	200.04000	.08261	.01839	.00200	-.00005	.00034	.00492	.00010	-.00008	.09910
-5.009	791.460	200.08000	-.09315	.02057	.00165	-.00285	.00122	.00469	.00029	-.00007	.09334
-5.009	991.330	199.90000	.10783	.02079	.00328	-.00491	.00110	.00440	.00027	-.00007	.09028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2436/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.016	12.783	200.12000	.91889	5.03000	.01346	-.02089	-.00820	.00259	.00034	.00002	.08516
-.003	41.253	200.14000	-.21314	5.03120	.00103	-.01208	-.00273	.00578	-.00116	.00009	.08024
-.038	92.229	200.03000	-.45550	5.01310	-.00346	-.02482	.00305	.00333	.00031	.00003	.08036
-.035	142.200	200.00000	-.07547	5.00020	.00125	-.02203	.01143	.00333	.00039	.00006	.08845
-.035	192.030	200.02000	-.23149	4.99100	-.00080	-.02283	.02024	.00091	.00018	.00010	.08836
-.031	292.310	200.12000	-.00464	5.00220	.00049	-.01779	.02315	.00735	-.00105	.00012	.09372
.013	391.310	200.03000	.07802	5.04530	.00209	-.00227	.04125	.00571	-.00159	.00000	.10322
.009	491.230	200.10000	-.22403	5.03100	.00351	.03207	.02203	.00300	-.00006	-.00006	.08321
-.006	591.330	200.07000	-.00022	5.02220	.00072	.04819	.01809	.00321	-.00035	-.00009	.08059
-.010	791.340	200.07000	.01787	5.02000	.00277	.04845	.01782	.00333	-.00011	-.00009	.09813
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2442/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.069	-53.371	200.18000	.00351	10.03000	.00383	.11134	.02402	.00388	-.00013	-.00013	.08443
4.974	14.838	200.00000	.14139	10.01700	.00407	.03509	.01435	.00429	.00002	.00008	.08535
4.983	50.183	200.03000	-.49455	10.04000	-.00337	.03403	.01934	.00497	.00011	.00000	.08449
4.937	100.870	199.93000	-.17817	9.99110	-.00183	.03203	.03339	.00459	-.00040	-.00005	.08574
4.989	200.180	199.93000	-.13765	10.00700	-.00180	.04799	.04045	.00300	-.00132	-.00004	.09352
4.995	299.540	200.18000	.09472	10.02300	.00359	.03249	.05140	.00337	-.00208	.00010	.10071
4.991	399.450	200.04000	-.32957	10.01800	-.00177	.10449	.03300	.00328	-.00083	-.00008	.09207
4.987	479.350	199.93000	.35903	10.01400	.00351	.11411	.03454	.00307	-.00072	-.00008	.09210
	GRADIENT	13.45171	.00951	.67373	.00033	.00220	.00097	.00029	.00000	.00001	.00574

REPRODUCIBILITY OF THE ORIGINAL PAGE IS PO...

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK053) (-20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLCR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2416/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-9.976	317.090	199.95000	-.08365	.00306	.54049	-.01453	-.00742	-.00073	.00082	-.01711	.23218
-9.980	342.150	200.08000	.04624	.00305	.48159	-.01056	-.00685	-.00046	.00037	-.01538	.23174
-10.006	391.870	200.03000	-.17739	-.00050	.41767	.01656	-.00898	-.00052	-.00004	-.01441	.23189
-10.011	442.060	200.12000	-.33485	-.00385	.39448	.01839	-.00927	-.00032	-.00001	-.01408	.22933
-10.024	492.450	200.13000	.03377	.00174	.38417	.01784	-.00934	-.00039	.00003	-.01472	.23123
-9.982	591.410	199.92000	.26805	.00780	.35912	.01433	-.00956	-.00038	.00003	-.01692	.23449
-9.977	691.230	200.01000	-.29775	-.00135	.30546	.01091	-.00939	-.00037	-.00033	-.01957	.23414
-10.006	791.600	200.03000	-.27572	-.00166	.29035	.01341	-.00957	-.00034	-.00022	-.01742	.23351
-10.099	994.670	193.16000	.10404	.00324	.29059	.01359	-.00936	-.00034	-.00023	-.01745	.23333
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2421/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.005	167.100	200.15000	.15544	.00529	.42717	.02760	-.00982	-.00057	.00010	-.00486	.23449
-5.026	192.240	200.06000	.39233	.00390	.43357	.02357	-.00863	-.00057	-.00005	-.00812	.23478
-5.026	242.210	200.08000	.62310	.01102	.40549	.01929	-.00972	-.00028	.00038	-.01237	.23452
-5.040	292.490	200.14000	.14924	.00256	.37071	.01828	-.00920	-.00036	-.00008	-.01547	.23475
-5.023	392.280	200.10000	-.24940	-.00170	.32053	.01435	-.00946	-.00035	-.00004	-.01466	.23423
-4.992	491.420	200.00000	-.15163	.00123	.30033	.01749	-.00935	-.00039	-.00012	-.01642	.23516
-4.991	591.240	200.09000	-.02817	.00285	.32670	.01882	-.00944	-.00038	-.00008	-.02005	.23405
-5.012	691.520	200.11000	.02037	.00312	.30725	.01233	-.00935	-.00037	-.00027	-.01952	.23506
-5.012	791.450	200.01000	.00400	.00226	.30204	.01374	-.00934	-.00037	-.00024	-.01817	.23476
-5.013	991.310	199.97000	-.02995	.00213	.29984	.01362	-.00943	-.00035	-.00024	-.01773	.23421
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.01000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(:)4RCI) W/ET SEPARATING (SVK053) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2416/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.976	317.090	5.02470	.00001	.00306	.20789	.00640	.02675	-.00005	-.00167	.00086
-9.980	342.150	5.02650	-.00022	.00505	.14699	.01036	.02848	-.00128	-.00140	.00042
-10.006	391.870	5.02690	-.00006	-.00050	.08490	.01749	.02947	-.00161	-.00146	.00001
-10.011	442.060	5.02950	-.00025	-.00396	.06163	.01933	.02992	-.00190	-.00126	.00004
-10.024	492.450	5.02810	-.00019	.00174	.04830	.01925	.02952	-.00191	-.00134	.00008
-9.992	591.410	5.02430	-.00026	.00780	.02231	.01536	.02734	-.00213	-.00132	.00009
-9.977	691.230	5.02770	-.00020	-.00135	-.02399	.02194	.02467	-.00195	-.00131	-.00029
-10.006	791.600	5.03000	-.00020	-.00166	-.03352	.02442	.02379	-.00214	-.00128	-.00018
-10.099	994.670	5.02830	-.00020	.00224	-.03656	.02460	.02677	-.00193	-.00128	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2421/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.005	167.100	5.04809	.00027	.00529	.09020	.03987	.03958	-.00235	-.00152	.00015
-5.026	192.240	5.04473	.00020	.00390	.05572	.03468	.03344	-.00114	-.00153	-.00000
-5.026	242.210	5.03913	-.00016	.01102	.03846	.03046	.03247	-.00218	-.00124	.00043
-5.040	292.490	5.03573	-.00012	.00555	.02036	.02832	.02934	-.00162	-.00132	-.00004
-5.023	393.260	5.03333	-.00017	-.00170	.02612	.02830	.03050	-.00187	-.00132	.00000
-4.982	491.420	5.02713	-.00022	.00168	.02533	.01875	.02879	-.00175	-.00136	-.00007
-4.991	591.240	5.02821	-.00022	.00265	-.01558	.01938	.02514	-.00185	-.00135	-.00003
-5.012	691.520	5.02871	-.00019	.00312	-.03373	.02353	.02545	-.00179	-.00133	-.00022
-5.012	791.450	5.02975	-.00018	.00226	-.03736	.02491	.02657	-.00180	-.00132	-.00020
-5.013	991.310	5.02979	-.00019	.00213	-.03755	.02470	.02677	-.00196	-.00130	-.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK053) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2416/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.976	317.090	199.95000	-.08366	-.03412	-.17196	440.27000	.00000	.00000	658.90000	.00000	.00000
-9.980	342.150	200.09000	.04624	.00837	-.09397	440.28000	.00000	.00000	658.91000	.00000	.00000
-10.006	391.870	200.03000	- 17739	.02065	-.04805	440.29000	.00000	.00000	659.24000	.00000	.00000
-10.011	442.060	200.12000	-.36485	.00887	-.07329	440.29000	.00000	.00000	659.38000	.00000	.00000
-10.024	492.450	200.13000	.08377	.01677	-.04836	443.24000	.00000	.00000	664.33000	.00000	.00000
-9.982	591.410	199.92000	.28305	-.00387	-.07409	444.24000	.00000	.00000	664.83000	.00000	.00000
-9.977	691.230	200.01000	-.29775	.01733	-.02691	444.14000	.00000	.00000	664.54000	.00000	.00000
-10.006	791.600	200.03000	-.27572	.01639	-.02187	443.68000	.00000	.00000	664.01000	.00000	.00000
-10.099	994.670	199.16000	.10404	.01978	-.02358	443.77000	.00000	.00000	664.15000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2421/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.005	167.100	200.15000	.15544	.01723	-.03459	446.04000	.00000	.00000	667.54000	.00000	.00000
-5.026	192.240	200.06000	.39233	.01449	-.03975	447.21000	.00000	.00000	669.29000	.00000	.00000
-5.026	242.210	200.08000	.69810	.00353	-.05387	450.10000	.00000	.00000	673.61000	.00000	.00000
-5.040	292.490	200.14000	.14924	.04640	.03414	452.78000	.00000	.00000	677.62000	.00000	.00000
-5.023	392.260	200.10000	-.24940	.00820	-.03178	453.25000	.00000	.00000	678.33000	.00000	.00000
-4.982	491.420	200.00000	-.15163	-.00238	-.05497	453.60000	.00000	.00000	679.15000	.00000	.00000
-4.991	591.240	200.09000	-.02917	.03081	.01280	453.80000	.00000	.00000	678.65000	.00000	.00000
-5.012	691.520	200.11000	.02037	.01510	-.01559	451.33000	.00000	.00000	675.51000	.00000	.00000
-5.012	791.450	200.01000	.00400	.01674	-.01233	450.66000	.00000	.00000	673.56000	.00000	.00000
-5.013	991.310	199.97000	-.02995	.01760	-.01385	446.61000	.00000	.00000	668.39000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ORBITER(04RC1) W/ET SEPARATING (UVK053) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2416/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.976	317.090	967.05000	967.05000	79.00000	967.05000	974.53899	64.00000	72.00000	16.60100	99.76800
-9.930	342.150	967.07000	967.07000	79.00000	967.07000	974.53899	64.00000	72.00000	8.82390	99.76800
-10.006	391.870	967.07000	967.07000	79.00000	967.07000	974.53899	64.00000	72.00000	3.63470	99.76800
-10.011	442.060	967.23000	967.23000	79.00000	967.23000	974.53899	64.00000	72.00000	.42219	99.76800
-10.024	492.450	974.13000	974.13000	79.00000	974.13000	974.53899	64.00000	72.00000	-1.12800	99.76800
-9.952	591.410	975.29000	975.29000	79.00000	975.29000	974.53899	64.00000	72.00000	-3.29870	99.76800
-9.977	691.230	975.33000	975.33000	79.00000	975.33000	974.53899	64.00000	72.00000	-4.64260	99.76800
-10.006	791.600	974.55000	974.55000	79.00000	974.55000	974.53899	64.00000	72.00000	-4.34450	99.76800
-10.099	994.670	974.75000	974.75000	79.00000	974.75000	974.53899	64.00000	72.00000	-4.26010	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2421/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.005	167.100	977.26000	977.26000	78.00000	977.26000	976.32000	79.00000	72.00000	2.40190	99.76800
-5.026	192.240	977.35000	977.35000	78.00000	977.35000	976.32000	79.00000	72.00000	2.11000	99.76800
-5.026	242.210	977.20000	977.20000	78.00000	977.20000	976.32000	79.00000	72.00000	.40102	99.76800
-5.040	292.490	977.01000	977.01000	78.00000	977.01000	976.32000	79.00000	72.00000	-1.05540	99.76800
-5.023	392.230	977.03000	977.03000	78.00000	977.03000	976.32000	79.00000	72.00000	-1.66100	99.76800
-4.992	491.420	977.20000	977.20000	78.00000	977.20000	976.32000	79.00000	72.00000	-3.45490	99.76800
-4.991	591.240	976.78000	976.78000	78.00000	976.78000	976.32000	79.00000	72.00000	-5.09080	99.76800
-5.012	691.520	976.93000	976.93000	78.00000	976.93000	976.32000	79.00000	72.00000	-5.08370	99.76800
-5.012	791.450	976.62000	976.62000	78.00000	976.62000	976.32000	79.00000	72.00000	-4.76910	99.76800
-5.013	991.310	976.53000	976.53000	78.00000	976.53000	976.32000	79.00000	72.00000	-4.55450	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-DSA (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK053) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UM3LDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2416/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.976	317.080	199.99000	-.00786	-4.98130	.00307	-.[illegible]500	.03734	.00823	-.00195	.00089	.11833
-9.980	342.150	200.02000	.04024	-4.92450	.00483	-.[illegible]078	.01782	.00743	-.00082	.00031	.10484
-10.006	391.870	200.03000	-.17739	-4.97710	-.00006	-.[illegible]5154	.00554	.00504	.00014	.00022	.08642
-10.011	442.030	200.12000	-.30106	-4.98180	-.00411	-.[illegible]4442	.00574	.00339	-.00012	.00019	.08554
-10.024	492.450	200.10000	.00877	-4.[illegible]	.00154	-.[illegible]4003	.01432	.00309	-.00049	.00012	.08578
-9.982	591.410	199.[illegible]000	.[illegible]006	-4.93709	.00754	-.[illegible]4075	.[illegible]000	.00720	-.00121	.00019	.11292
-9.977	691.230	200.01000	-.20775	-4.94970	-.00155	-.[illegible]0003	.[illegible]0003	.00314	.00016	.00015	.10073
-10.006	791.690	200.03000	-.27572	-4.97000	-.00105	-.[illegible]0102	-.01072	.00821	.00034	-.00005	.08902
-10.009	884.870	199.[illegible]000	.10404	-5.[illegible]080	.[illegible]004	-.[illegible]0007	-.01[illegible]3	.00502	.00059	-.00006	.09100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2421/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.005	167.100	200.[illegible]000	.15544	.04[illegible]8	.[illegible]025	-.[illegible]1039	.00439	.00824	-.00003	.00044	.09530
-5.026	192.240	200.[illegible]000	.[illegible]7053	.01[illegible]33	.00210	-.[illegible]1[illegible]9	.[illegible]0035	.00332	.00039	.00036	.09462
-5.026	242.210	200.[illegible]000	.[illegible]5[illegible]10	.01[illegible]343	.01[illegible]75	-.[illegible]0[illegible]17	.00720	.00343	.00033	.00015	.08807
-5.040	292.430	200.14000	.14[illegible]24	-.00[illegible]007	.[illegible]0394	-.[illegible]0[illegible]37	.01333	.00489	.00015	.00009	.09173
-5.023	392.280	200.10000	-.24[illegible]40	.03[illegible]93	-.[illegible]0107	-.[illegible]7[illegible]63	.02447	.00463	-.00032	.00007	.09792
-4.992	491.420	200.[illegible]000	-.15163	.04473	.00165	-.[illegible]3708	.03149	.00830	-.00085	.00013	.10764
-5.012	691.[illegible]30	200.11[illegible]00	.[illegible]0[illegible]37	.01622	.[illegible]0[illegible]83	-.[illegible]0[illegible]70	.00668	.00469	.00005	-.00007	.09378
-5.012	791.480	200.01000	.[illegible]7[illegible]00	.01755	.00308	-.00514	.00121	.00445	.00034	-.00007	.08835
-5.013	891.310	199.97000	-.[illegible]8[illegible]3	.01[illegible]39	.00194	-.[illegible]0497	.[illegible]0034	.00428	.00030	-.00007	.08825
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK054) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2745/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-20.042	624.980	400.17000	.18209	.00177	.45703	-.12827	.00221	-.00093	.00112	-.05122	.23327
-20.007	699.300	399.80000	-.01317	.00546	.33045	-.00156	.00008	-.00052	.00069	-.05037	.23405
-19.967	799.650	399.62000	.13370	.00519	.30197	.10795	.00029	-.00064	.00018	-.04216	.23433
-20.083	999.930	400.18000	.09370	-.00110	.28970	.11196	-.00023	-.00059	.00028	-.03906	.23375
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2749/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-15.535	500.050	400.11000	-.24620	-.00143	.43600	-.11159	.00059	-.00070	.00052	-.04108	.23425
-15.530	549.560	400.02000	.13425	.00454	.38941	-.10724	.00028	-.00069	.00071	-.03986	.23374
-15.497	599.190	399.94000	-.41651	-.00340	.33721	-.00081	-.00005	-.00064	.00076	-.03978	.23387
-15.475	699.680	399.88000	.23005	.00340	.29722	.10858	.00011	-.00075	.00003	-.03553	.23436
-15.515	799.180	400.03000	-.21218	-.00031	.28700	.11169	-.00037	-.00058	.00031	-.03734	.23427
-15.581	1000.000	400.25000	-.04032	-.00284	.28757	.11193	-.00054	-.00058	.00031	-.03716	.23430
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2425/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	MM
-10.033	317.720	400.13000	-.14652	-.00477	.47801	.10082	-.00234	-.00053	.00053	-.01812	.23323
-9.993	341.420	400.00000	-1.75970	-.01993	.45835	-.10123	-.00846	-.00055	.00021	-.01939	.23311
-10.040	391.940	400.06000	.09038	-.00041	.40425	.10524	-.00849	-.00048	.00011	-.01665	.23315
-9.999	441.300	399.97000	-.26007	.00019	.38788	.10511	-.00937	-.00033	-.00005	-.01644	.23400
-9.983	491.120	399.98000	.21171	.00564	.37205	.10333	-.00926	-.00031	.00000	-.01676	.23354
-9.971	590.850	399.90000	.45529	.00845	.31618	.10874	-.00908	-.00036	.00001	-.02029	.23417
-9.997	691.330	400.01000	.09055	.00332	.25034	.11217	-.00889	-.00030	-.00022	-.01764	.23423
-10.042	791.930	400.16000	.80553	.01101	.29029	.11305	-.00696	-.00030	-.00021	-.01575	.23352
-10.006	991.530	400.11000	.01327	.00194	.28788	.11297	-.00897	-.00030	-.00021	-.01535	.23422
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2431/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CMR	CYR	CYNR	CBLR	CAR	HM
-5.026	167.120	399.92000	.14244	.00400	.41526	.02480	-.00932	-.00032	.00013	-.00982	.23322
-4.993	191.190	400.00000	.04086	.00376	.40926	.02135	-.00943	-.00030	.00018	-.01125	.23380
-4.982	240.760	399.97000	.06514	.00352	.39534	.01479	-.00916	-.00031	.00027	-.01177	.23397
-5.015	291.340	400.00000	.25824	.00277	.37338	.01228	-.00907	-.00035	-.00006	-.01347	.23437
-4.968	390.610	400.02000	-.10571	.00239	.35718	.00920	-.00940	-.00033	-.00006	-.01421	.23504
-4.978	490.730	399.97000	-.14540	-.00080	.33443	.00602	-.00944	-.00033	.00003	-.01765	.23470
-5.001	591.220	400.00000	-.12639	.00139	.30332	.01114	-.00917	-.00034	-.00033	-.01911	.23500
-5.036	691.810	400.03000	-.01375	.00032	.28542	.01352	-.00923	-.00030	-.00023	-.01724	.23546
-5.005	791.370	400.13000	.05310	.00273	.28350	.01352	-.00935	-.00030	-.00022	-.01722	.23497
-5.009	991.260	400.12000	.10257	.00285	.28342	.01351	-.00929	-.00030	-.00023	-.01727	.23571
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2437/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CMR	CYR	CYNR	CBLR	CAR	HM
-.023	41.618	400.09000	-.41736	-.00346	.37844	.03971	-.00958	-.00055	-.00018	-.00517	.23418
.039	90.339	400.04000	.02353	.00720	.38321	.03108	-.00936	-.00026	.00002	-.00954	.23377
.023	140.530	400.11000	.31517	.00653	.37212	.02234	-.00935	-.00035	-.00008	-.01213	.23324
.001	191.070	400.14000	-.16536	-.00119	.35919	.01784	-.00918	-.00043	-.00000	-.01401	.23365
.030	290.450	400.10000	.03224	.00285	.35037	.01318	-.00927	-.00038	.00000	-.01413	.23397
.034	390.360	400.13000	.01018	.00434	.35403	.01079	-.00932	-.00038	-.00010	-.01626	.23412
-.015	491.200	400.05000	-.09360	.00057	.30901	.01060	-.00930	-.00038	-.00016	-.01919	.23442
-.035	591.650	400.04000	.02883	.00056	.30052	.01314	-.00936	-.00036	-.00024	-.01795	.23436
-.010	791.270	400.12000	.25453	.00559	.28081	.01371	-.00927	-.00036	-.00025	-.01763	.23448
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2443/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CMR	CYR	CYNR	CBLR	CAR	HM
4.987	-50.663	400.11000	-.28275	-.00319	.32341	.03193	-.01112	-.00033	-.00039	-.00206	.23388
5.021	13.935	400.11000	.01234	.00655	.34913	.03153	-.00934	-.00052	-.00021	-.00747	.23464
5.012	48.945	400.17000	-.60384	-.00918	.35239	.02837	-.00956	-.00029	-.00013	-.01132	.23464
5.013	88.617	400.00000	-.30332	-.00247	.33424	.02215	-.00946	-.00043	-.00010	-.01334	.23464
5.026	188.220	400.20000	-.50059	-.00504	.34014	.01529	-.00934	-.00035	-.00003	-.01376	.23429
4.990	288.410	400.12000	.00397	.00337	.33033	.01035	-.00930	-.00035	-.00014	-.01524	.23412
4.990	388.000	400.11000	.13082	.00403	.32126	.00647	-.00937	-.00038	-.00014	-.01805	.23423
4.972	479.360	400.09000	-.06210	-.00014	.30354	.01167	-.00945	-.00039	-.00033	-.01929	.23439
	GRADIENT	28.71259	.00089	.00047	.02505	.00226	-.00069	-.00004	-.00002	-.00054	.01684

V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (SVK054) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2745/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.042	624.980	5.00000	-.00028	.00177	.12503	-.01737	-.00744	.00956	-.00186	.00117
-20.007	699.300	5.01800	-.00036	.00546	-.00269	.00939	-.00643	.00746	-.00146	.00074
-19.967	799.650	5.02500	-.00011	.00519	-.03111	.01839	.00177	.00767	-.00159	.00022
-20.093	999.950	5.02800	-.00011	-.00110	-.04458	.02294	.00503	.00718	-.00153	.00033
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2749/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.535	500.060	5.01400	-.00028	-.00143	.10519	-.00072	.00255	.00792	-.00163	.00057
-15.530	549.560	5.01600	-.00024	.00454	.05669	.00364	.00377	.00761	-.00162	.00075
-15.497	599.190	5.02000	-.00019	-.00340	.00324	.01168	.00397	.00728	-.00157	.00080
-15.475	699.680	5.02300	.00003	.00340	-.03291	.01943	.00401	.00743	-.00168	.00007
-15.515	799.160	5.02300	-.00011	-.00031	-.04299	.02273	.00619	.00395	-.00151	.00035
-15.581	1000.000	5.02300	-.00010	-.00284	-.04281	.02279	.00641	.00678	-.00151	.00035
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2425/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.033	317.720	5.02720	-.00013	-.00477	.14475	.01177	.02583	-.00116	-.00147	.00058
-9.993	341.420	5.02400	-.00014	-.01999	.12220	.00973	.02459	-.00107	-.00149	.00025
-10.040	391.940	5.02730	-.00014	-.00041	.07065	.01620	.02735	-.00109	-.00142	.00015
-9.999	441.300	5.02340	-.00029	.00019	.05345	.01610	.02767	-.00196	-.00128	-.00001
-9.983	491.120	5.02450	-.00034	.00354	.03705	.01483	.02742	-.00184	-.00126	.00005
-9.971	590.850	5.02630	-.00014	.00645	-.01894	.01975	.02391	-.00165	-.00130	.00005
-9.997	691.330	5.02500	-.00025	.00392	-.03099	.02301	.02366	-.00158	-.00123	-.00018
-10.042	791.990	5.02590	-.00022	.01101	-.03401	.02372	.02702	-.00178	-.00122	-.00016
-10.006	991.530	5.02550	-.00022	.00194	-.03394	.02365	.02709	-.00183	-.00121	-.00016
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(049C1) W/ET SEPARATING (SVK054) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2431/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.026	167.120	5.04545	-.00003	.00400	.08678	.03559	.03350	-.00204	-.00124	.00018
-4.993	191.190	5.04216	-.00009	.00376	.08013	.03217	.03216	-.00213	-.00123	.00023
-4.992	240.760	5.03550	-.00018	.00352	.06652	.02553	.03173	-.00185	-.00124	.00031
-5.015	291.340	5.03202	-.00017	.00277	.04372	.02202	.03004	-.00176	-.00128	-.00002
-4.998	390.610	5.02537	-.00025	.00239	.03000	.01905	.02835	-.00208	-.00126	-.00001
-4.978	490.730	5.02495	-.00029	-.00080	.00361	.01689	.02868	-.00211	-.00126	.00008
-5.001	591.280	5.02312	-.00022	.00138	-.02810	.02205	.02467	-.00181	-.00128	-.00029
-5.036	691.810	5.02397	-.00023	.00032	-.03536	.02443	.02652	-.00193	-.00124	-.00019
-5.006	791.370	5.02893	-.00023	.00273	-.03359	.02443	.02859	-.00199	-.00124	-.00018
-5.009	991.260	5.03002	-.00023	.00235	-.03330	.02441	.02850	-.00194	-.00124	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2437/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.023	41.618	5.05832	.00040	-.00346	.04224	.03076	.03917	-.00213	-.00150	-.00013
.039	90.339	5.04925	-.00003	.00720	.04677	.04214	.03484	-.00221	-.00121	.00006
.023	140.580	5.04102	-.00005	.00353	.03501	.03339	.03219	-.00211	-.00130	-.00004
.001	191.070	5.03334	-.00003	-.00119	.02200	.02203	.03033	-.00173	-.00138	.00004
.030	290.450	5.03224	-.00014	.00355	.02303	.02422	.03018	-.00163	-.00133	.00005
.034	390.350	5.02823	-.00022	.00434	.01827	.01782	.02802	-.00209	-.00133	-.00006
-.015	491.200	5.02765	-.00019	.00057	-.02663	.02163	.02807	-.00185	-.00133	-.00011
-.035	591.650	5.02857	-.00018	.00056	-.03506	.02417	.02831	-.00192	-.00131	-.00019
-.010	791.270	5.02993	-.00017	.00558	-.03675	.02472	.02859	-.00184	-.00130	-.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2443/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.997	-50.663	5.04840	.00009	-.00319	-.00784	.04281	.04163	-.00378	-.00126	-.00035
5.021	12.935	5.04080	.00026	.00355	.01750	.04243	.03328	-.00229	-.00145	-.00016
5.012	48.945	5.04510	-.00005	-.00318	.02047	.03728	.03245	-.00221	-.00122	-.00008
5.013	98.617	5.03970	.00004	-.00247	.00201	.03306	.02938	-.00210	-.00137	-.00005
5.036	198.280	5.03520	-.00010	-.00394	.00771	.02761	.03008	-.00247	-.00130	.00001
5.026	283.410	5.03340	-.00020	.00337	.01761	.02059	.02834	-.00242	-.00130	-.00009
4.990	339.000	5.03330	-.00028	.00403	-.01145	.01941	.02833	-.00250	-.00132	-.00010
4.972	479.350	5.03370	-.00016	-.00014	-.02335	.02263	.02869	-.00207	-.00133	-.00028
	GRADIENT	.36230	.00002	.00047	.00126	.00304	.00260	-.00016	-.00010	-.00001

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK054) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	.000	X =	400.000		
Y =	.000	ELEVON =	.000		
UMELDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2745/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHFD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.042	624.930	400.17000	.18209	.00168	-.14075	433.40000	.00000	.00000	657.72000	.00000	.00000
-20.007	603.300	399.00000	-.01317	.07575	-.[illegible]	440.[illegible]	.00000	.00000	660.[illegible]	.00000	.00000
-19.997	799.650	399.02000	.13370	.00748	-.[illegible]	440.[illegible]	.00000	.00000	669.[illegible]	.00000	.00000
-20.083	999.950	400.18000	.08570	.05104	-.07039	442.40000	.00000	.00000	682.22000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2749/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHFD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.535	500.000	400.11000	-.24020	.00314	-.[illegible]71	437.[illegible]20	.00000	.00000	[illegible]3.31000	.00000	.00000
-15.530	549.550	400.02000	.13425	.04977	-.11[illegible]3	437.91000	.[illegible]0000	.00000	[illegible]3.51000	.00000	.00000
-15.497	599.190	399.91000	-.41051	.00276	-.[illegible]	[illegible].11[illegible]0	.[illegible]0000	.00000	[illegible]3.67000	.00000	.00000
-15.475	699.680	399.81000	.20005	.05410	-.[illegible]	[illegible].[illegible]60	.[illegible]0000	.00000	[illegible]3.83000	.00000	.00000
-15.515	799.180	400.03000	-.21218	.00403	-.[illegible]	438.91000	.[illegible]0000	.00000	[illegible]3.75000	.00000	.00000
-15.581	1000.000	400.25000	-.04052	.04733	-.07123	437.88000	.00000	.00000	654.40000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2425/ 0 RN/L = .63 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHFD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.033	317.720	400.13000	-.14852	.01291	-.09300	441.14000	.00000	.00000	660.20000	.00000	.00000
-9.993	341.420	400.00000	-1.78970	.00022	-.10343	441.40000	.00000	.00000	660.59000	.00000	.00000
-10.040	391.940	400.03000	.00039	.07047	.00511	441.[illegible]0000	.00000	.00000	660.87000	.00000	.00000
-9.999	441.300	399.97000	-.23007	.01714	-.07003	442.[illegible]0000	.00000	.00000	662.59000	.00000	.00000
-9.993	491.120	399.92000	.21171	.01042	-.[illegible]037	443.[illegible]2000	.[illegible]0000	.00000	663.[illegible]3000	.00000	.00000
-9.971	590.850	399.90000	.49339	.05218	-.01332	443.67000	.00000	.00000	663.84000	.00000	.00000
-9.997	691.330	400.01000	.00005	.05091	-.04037	443.[illegible]0000	.00000	.00000	663.40000	.00000	.00000
-10.042	791.930	400.12000	.80803	.03401	-.03327	423.27000	.00000	.00000	642.44000	.00000	.00000
-10.006	991.530	400.11000	.01327	.02939	-.02749	425.[illegible]3000	.00000	.00000	637.52000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK054) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2431/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.026	167.120	399.92000	.14244	.03000	.00374	434.62000	.00000	.00000	650.74000	.00000	.00000
-4.993	191.180	400.00000	.04035	.01685	-.00716	435.60000	.00000	.00000	652.00000	.00000	.00000
-4.982	240.720	399.97000	.00514	.00281	-.00546	436.57000	.00000	.00000	653.37000	.00000	.00000
-5.015	291.340	400.00000	.02024	.01182	-.00404	438.77000	.00000	.00000	653.62000	.00000	.00000
-4.993	339.610	400.02000	-.10871	.00024	-.00740	437.10000	.00000	.00000	654.22000	.00000	.00000
-4.978	490.720	399.97000	-.14010	.01000	-.00441	437.00000	.00000	.00000	655.22000	.00000	.00000
-5.001	591.200	400.00040	-.12033	.00035	-.00513	438.20000	.00000	.00000	657.54000	.00000	.00000
-5.036	691.810	400.00000	-.01375	.00743	-.01007	438.27000	.00000	.00000	657.40000	.00000	.00000
-5.006	791.370	400.13000	.08810	.02218	-.01045	438.71000	.00000	.00000	658.07000	.00000	.00000
-5.009	991.200	400.12000	.10037	.02059	-.01503	439.37000	.00000	.00000	657.58000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2437/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.023	41.618	400.00000	-.41735	.01221	.01803	446.07000	.00000	.00000	665.03000	.00000	.00000
.039	90.339	400.04000	.02203	.00783	.01182	446.33000	.00000	.00000	665.58000	.00000	.00000
.023	140.500	400.11000	.31517	.00165	.00473	444.01000	.00000	.00000	665.03000	.00000	.00000
.001	191.070	400.14000	-.12035	-.01111	-.01313	446.02000	.00000	.00000	665.01000	.00000	.00000
.030	239.400	400.12000	.00324	-.00103	-.00376	444.03000	.00000	.00000	666.51000	.00000	.00000
.034	339.300	400.13000	.01018	-.01314	-.01947	444.42000	.00000	.00000	665.18000	.00000	.00000
-.015	491.200	400.00000	-.00100	.01005	.01203	444.62000	.00000	.00000	664.71000	.00000	.00000
-.035	591.830	400.00000	.00013	.00019	.00703	444.21000	.00000	.00000	664.03000	.00000	.00000
-.010	731.270	400.11000	.00083	.00009	.00375	445.02000	.00000	.00000	664.33000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2443/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.997	-50.683	400.11000	-.20075	-.01005	.03182	423.47000	.00000	.00000	655.21000	.00000	.00000
5.021	13.955	400.11000	.01204	-.01009	.03012	423.03000	.00000	.00000	655.52000	.00000	.00000
5.012	48.945	400.17000	-.01174	-.00225	.01857	423.07000	.00000	.00000	657.54000	.00000	.00000
5.013	93.617	400.03000	-.00002	-.02503	.04071	423.72000	.00000	.00000	658.17000	.00000	.00000
5.035	193.200	400.23000	-.05009	-.02317	.04783	441.05000	.00000	.00000	659.54000	.00000	.00000
5.026	293.410	400.12000	.08007	-.04116	.03002	441.41000	.00000	.00000	658.12000	.00000	.00000
4.980	393.000	400.11000	.13008	-.03029	.04891	441.42000	.00000	.00000	659.13000	.00000	.00000
4.972	479.330	400.03000	-.03210	-.02145	.04049	441.44000	.00000	.00000	660.63000	.00000	.00000
	GRADIENT	20.71838	.00089	-.00114	.00303	31.50369	.00000	.00000	47.14604	.00000	.00000

V41B-09A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK054) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0123				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMILDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2745/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-20.042	624.900	978.40000	978.40000	83.00000	978.40000	978.00000	10.00000	77.00000	25.19800	99.51600
-20.007	680.300	978.00000	978.00000	80.00000	978.00000	978.00000	10.00000	77.00000	22.00400	99.51600
-19.987	720.000	977.60000	977.60000	79.00000	977.60000	978.00000	10.00000	77.00000	14.66300	99.51600
-20.083	889.900	979.27000	979.27000	88.00000	979.27000	978.00000	10.00000	77.00000	4.13180	99.51600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2749/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-15.555	500.000	979.24000	979.24000	85.00000	979.24000	979.00000	72.00000	78.00000	19.50300	99.64200
-15.530	543.500	979.20000	979.20000	83.00000	979.20000	979.00000	72.00000	78.00000	19.19100	99.64200
-15.497	603.100	979.20000	979.20000	85.00000	979.20000	979.00000	72.00000	78.00000	16.47000	99.64200
-15.475	603.600	979.18000	979.18000	85.00000	979.18000	979.00000	72.00000	78.00000	9.14170	99.64200
-15.515	793.100	979.24000	979.24000	86.00000	979.24000	979.00000	72.00000	78.00000	4.31720	99.64200
-15.581	1000.000	979.41000	979.41000	85.00000	979.41000	979.00000	72.00000	78.00000	.95309	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2423/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPDAL	TB1	TB2	DT	T
-10.033	317.720	974.30000	974.30000	80.00000	974.30000	974.10000	82.00000	72.00000	23.76800	99.76800
-9.993	341.420	973.90000	973.90000	80.00000	973.90000	974.10000	82.00000	72.00000	22.53900	99.76800
-10.040	391.940	973.80000	973.80000	80.00000	973.80000	974.10000	82.00000	72.00000	19.51000	99.76800
-9.999	441.300	973.80000	973.80000	80.00000	973.80000	974.10000	82.00000	72.00000	16.97300	99.76800
-9.983	481.120	973.80000	973.80000	80.00000	973.80000	974.10000	82.00000	72.00000	14.28300	99.76800
-9.971	550.000	974.00000	974.00000	80.00000	974.00000	974.10000	82.00000	72.00000	12.22300	99.76800
-9.927	691.300	974.40000	974.40000	80.00000	974.40000	974.10000	82.00000	72.00000	8.40800	99.76800
-10.042	781.500	974.60000	974.60000	80.00000	974.60000	974.10000	82.00000	72.00000	5.31140	99.76800
-10.006	931.530	975.20000	975.20000	80.00000	975.20000	974.10000	82.00000	72.00000	2.45000	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RCI))/ET SEPARATING (UVK094) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2431/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.026	137.120	963.25000	963.25000	79.00000	963.25000	93.03999	64.00000	73.00000	.87801	99.76800
-4.993	191.190	965.60000	965.60000	79.00000	965.60000	93.03999	64.00000	73.00000	.08630	99.76800
-4.982	240.760	967.63000	967.63000	79.00000	967.63000	93.03999	64.00000	73.00000	.28757	99.76800
-5.015	291.340	969.50000	969.50000	79.00000	969.50000	93.03999	64.00000	73.00000	2.11280	99.76800
-4.989	390.610	971.40000	971.40000	79.00000	971.40000	93.03999	64.00000	73.00000	2.87950	99.76800
-4.978	490.730	972.99000	972.99000	79.00000	972.99000	93.03999	64.00000	73.00000	4.34210	99.76800
-5.001	591.200	974.77000	974.77000	79.00000	974.77000	93.03999	64.00000	73.00000	4.62220	99.76800
-5.035	691.810	976.02000	976.02000	79.00000	976.02000	93.03999	64.00000	73.00000	2.92410	99.76800
-5.006	791.370	977.01000	977.01000	79.00000	977.01000	93.03999	64.00000	73.00000	.98163	99.76800
-5.009	991.260	978.19000	978.19000	79.00000	978.19000	93.03999	64.00000	73.00000	-1.02870	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2437/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.023	41.618	977.02000	977.02000	79.00000	977.02000	96.81000	64.00000	72.00000	-4.42760	99.76800
.039	90.339	977.22000	977.22000	79.00000	977.22000	96.81000	64.00000	72.00000	-4.81280	99.76800
.023	140.580	976.76000	976.76000	79.00000	976.76000	96.81000	64.00000	72.00000	-5.05120	99.76800
.001	191.070	977.00000	977.00000	79.00000	977.00000	96.81000	64.00000	72.00000	-3.90020	99.76800
.030	290.450	976.75000	976.75000	79.00000	976.75000	96.81000	64.00000	72.00000	-.04148	99.76800
.034	390.360	976.72000	976.72000	79.00000	976.72000	96.81000	64.00000	72.00000	3.22410	99.76800
-.015	491.200	976.68000	976.68000	79.00000	976.68000	96.81000	64.00000	72.00000	5.92670	99.76800
-.035	591.650	976.69000	976.69000	79.00000	976.69000	96.81000	64.00000	72.00000	4.11770	99.76800
-.010	791.270	976.54000	976.54000	79.00000	976.54000	96.81000	64.00000	72.00000	.65468	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2443/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.997	-50.663	977.17000	977.17000	78.00000	977.17000	96.98000	64.00000	72.00000	-5.73240	99.89400
5.021	13.935	977.34000	977.34000	78.00000	977.34000	96.98000	64.00000	72.00000	-6.44650	99.89400
5.012	48.945	977.20000	977.20000	78.00000	977.20000	96.98000	64.00000	72.00000	-7.20190	99.89400
5.013	98.617	977.16000	977.16000	78.00000	977.16000	96.98000	64.00000	72.00000	-7.54840	99.89400
5.036	198.280	976.74000	976.74000	78.00000	976.74000	96.98000	64.00000	72.00000	-6.68290	99.89400
5.026	298.410	977.11000	977.11000	78.00000	977.11000	96.98000	64.00000	72.00000	-5.91050	99.89400
4.990	399.000	977.13000	977.13000	78.00000	977.13000	96.98000	64.00000	72.00000	-3.39840	99.89400
4.972	479.360	976.95000	976.95000	78.00000	976.95000	96.98000	64.00000	72.00000	-1.61450	99.89400
	GRADIENT	70.13563	70.13563	5.59742	70.13563	0.10836	4.59275	5.16685	-.46261	7.16857

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2745/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.042	624.980	400.17000	.18209	-15.04200	.00149	-.35823	-.01353	.01213	.00082	.00039	.10757
-20.007	699.300	399.80000	-.01317	-14.99900	.00510	-.35899	-.00248	.01435	-.00068	.00030	.11977
-19.967	798.650	399.62000	.13370	-14.94200	.00508	-.35375	.02294	.01462	-.00153	.00024	.14044
-20.083	999.950	400.16000	.08370	-15.05400	-.00121	-.25367	-.02654	.00698	.00117	-.00008	.10672
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2749/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.535	500.060	400.11000	-.24620	-10.52100	-.00171	-.28324	-.00197	.01079	-.00002	.00043	.10914
-15.530	549.560	400.02000	.13425	-10.51400	.00431	-.25574	-.01194	.01129	-.00012	.00015	.10207
-15.497	599.190	399.94000	-.41851	-10.47700	-.00359	-.24122	-.00234	.01204	-.00050	.00010	.10945
-15.475	699.680	399.85000	.28005	-10.45000	.00343	-.21835	.01624	.01206	-.00087	.00002	.12332
-15.515	799.180	400.03000	-.21218	-10.48700	-.00042	-.21150	.01208	.01212	-.00122	.00026	.12709
-15.581	1000.000	400.25000	-.04032	-10.55300	-.00294	-.19158	-.03128	.00762	.00119	-.00017	.09349
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2425/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.033	317.720	400.13000	-.14652	-5.00000	-.00490	-.21345	.02334	.00433	.00026	.00082	.11584
-9.993	341.420	400.00000	-1.72870	-4.98220	-.02013	-.21335	.02854	.00717	-.00115	.00103	.12371
-10.040	391.940	400.06000	.03033	-5.01260	-.00054	-.18090	-.00002	.00492	.00053	.00033	.09547
-9.999	441.300	399.97000	-.26007	-4.97270	-.00010	-.19148	-.00227	.00428	.00047	.00019	.09392
-9.983	491.120	399.99000	.21171	-4.95940	.00530	-.19251	.00488	.00551	-.00011	.00016	.09768
-9.971	590.850	399.90000	.49529	-4.94450	.00821	-.19426	.01837	.00699	-.00061	.00012	.10942
-9.997	691.330	400.01000	.09095	-4.96840	.00367	-.18200	.01543	.00773	-.00092	.00026	.11028
-10.042	791.950	400.16000	.80563	-5.01220	.01079	-.01875	-.01236	.00463	.00037	.00000	.08868
-10.006	991.530	400.11000	.01327	-4.97640	.00171	-.00193	-.01533	.00442	.00053	-.00005	.09189
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22).ET SEPARATING FROM ORB (04RC1) (AVK054) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2431/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.026	167.120	399.92000	.14244	.01935	.00397	-.13294	.00093	.00413	.00028	.00006	.10394
-4.993	191.190	400.00000	.04086	.04936	.00367	-.13098	.00733	.00608	-.00018	-.00004	.10507
-4.982	240.760	399.97000	.06514	.05340	.00334	-.11736	.01360	.00746	-.00081	.00009	.10232
-5.015	291.340	400.00000	.25924	.01852	.00261	-.01014	.00381	.00580	.00023	.00021	.08931
-4.958	390.610	400.02000	-.10571	.06017	.00244	-.07100	.01588	.00530	-.00043	.00004	.09515
-4.978	490.730	399.97000	-.14540	.04665	-.00108	-.01829	.02715	.00480	-.00012	.00001	.10374
-5.001	591.280	400.00000	-.12539	.02713	.00116	-.01872	.02348	.00810	-.00054	.00005	.10563
-5.036	691.810	400.02000	-.01375	-.00523	.00009	-.01976	.00185	.00485	.00026	-.00005	.08735
-5.006	791.370	400.13000	.05310	.02563	.00260	-.01636	.00102	.00450	.00034	-.00007	.08903
-5.009	991.260	400.12000	.10957	.02102	.00273	-.01506	.00121	.00437	.00039	-.00007	.09013
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2437/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.023	41.618	400.09000	-.41736	5.03430	-.00306	-.01357	-.01022	.00576	.00147	.00009	.10085
.039	90.339	400.04000	.02363	5.03320	.00717	-.01533	.00856	.00726	-.00063	-.00004	.09815
.023	140.580	400.11000	.31517	5.03360	.00658	-.01857	.01550	.00724	-.00110	-.00009	.09230
.001	191.070	400.14000	-.16386	5.03390	-.00122	-.01331	.01294	.00531	-.00049	.00004	.08735
.030	290.450	400.16000	.06224	5.06250	.00281	-.01446	.02670	.00314	-.00043	.00005	.08931
.034	390.360	400.13000	.01018	5.06010	.00411	-.01695	.03970	.00577	-.00133	-.00003	.09930
-.015	491.200	400.05000	-.09330	5.01250	.00038	.01478	.03542	.00522	-.00159	.00004	.10180
-.035	591.650	400.04000	.02593	4.99410	.00039	.01557	.01693	.00330	-.00042	-.00008	.06594
-.010	791.270	400.12000	.29453	5.02010	.00540	.01915	.01793	.00349	.00004	-.00009	.08897
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2443/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.997	-50.663	400.11000	-.28275	10.04500	-.00310	.01190	.00074	.00489	.00041	.00003	.10369
5.021	13.935	400.11000	.01234	10.07000	.00691	.01231	.01639	.00560	-.00147	-.00012	.09310
5.012	48.945	400.17000	-.68034	10.05700	-.00523	.00153	.02188	.00659	-.00102	-.00006	.08854
5.013	98.617	400.03000	-.30332	10.05300	-.00243	.00469	.02553	.00536	-.00065	-.00005	.08887
5.036	198.280	400.20000	-.55059	10.07100	-.00504	.01838	.04080	.00482	-.00063	-.00008	.08955
5.026	298.410	400.12000	.00397	10.05500	.00317	.01034	.05131	.00475	-.00139	-.00008	.09958
4.990	399.000	400.11000	.13382	10.01700	.00333	.01738	.04462	.00452	-.00145	.00002	.09685
4.972	479.360	400.09000	-.06210	10.00100	-.00031	.11833	.03568	.00279	-.00073	-.00007	.09289
	GRADIENT	28.71259	.00089	.72264	.00049	.01017	.00136	.00047	-.00011	-.00001	.00668

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK055) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2417/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-10.030	317.740	400.17000	.41240	.00343	.47742	.01035	-.00861	-.00057	.00053	-.01772	.23186
-9.988	341.500	399.95000	1.48820	.02715	.45986	-.01135	-.00832	-.00060	.00024	-.01853	.23201
-10.063	391.910	400.08000	-1.01410	-.01615	.40235	.01506	-.00881	-.00050	.00011	-.01564	.23184
-9.998	441.340	400.02000	.01134	.00304	.38539	.01488	-.00918	-.00039	-.00003	-.01509	.23213
-9.983	491.200	399.94000	.15069	.00429	.38377	.01347	-.00941	-.00034	.00003	-.01504	.23225
-9.957	590.930	399.85000	-.00002	.00100	.31190	.01344	-.00985	-.00041	.00004	-.01853	.23242
-9.995	691.270	400.08000	.10993	.00390	.29752	.01209	-.00907	-.00035	-.00022	-.01712	.23242
-10.040	791.930	400.20000	.03570	.00025	.28509	.01341	-.00930	-.00034	-.00022	-.01718	.23310
-10.004	991.420	400.10000	-.14790	.00047	.30039	.01385	-.00915	-.00035	-.00022	-.01814	.23486
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2422/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	HM
-5.019	167.140	399.97000	.12449	.00360	.42080	.01502	-.00854	-.00037	.00013	-.01044	.23469
-4.986	191.090	400.10000	-.31730	-.00196	.41467	.01145	-.00853	-.00035	.00018	-.01162	.23489
-4.980	240.770	399.93000	-.49200	-.00336	.40050	.01492	-.00842	-.00036	.00025	-.01192	.23480
-5.013	291.330	400.05000	.04406	.00127	.37752	.01309	-.00827	-.00039	-.00008	-.01364	.23518
-4.974	390.630	400.05000	.01735	.00351	.37037	.01333	-.00861	-.00038	-.00006	-.01429	.23483
-4.980	490.680	400.06000	.30545	.00853	.33775	.01606	-.00846	-.00036	-.00000	-.01753	.23462
-4.999	591.240	400.05000	-.13290	.00154	.30525	.01115	-.00843	-.00039	-.00034	-.01985	.23538
-5.036	691.850	400.12000	-.00350	.00094	.29317	.01355	-.00837	-.00035	-.00023	-.01696	.23497
-5.014	791.390	400.07000	.04564	.00275	.28833	.01355	-.00830	-.00037	-.00024	-.01684	.23474
-5.004	991.230	400.20000	.33354	.00632	.28835	.01356	-.00828	-.00035	-.00023	-.01684	.23538
	GRADIENT	.00000	.00000	.00000	.00000	.01000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) 4/ET SEPARATING (SVK055) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2417/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.030	317.740	5.02590	-.00008	.00343	.14481	.01128	.02615	-.00124	-.00151	.00059
-9.983	341.500	5.02390	-.00008	.02715	.12647	.00957	.02530	-.00096	-.00154	.00028
-10.063	391.910	5.02570	-.00011	-.01615	.07074	.01595	.02809	-.00146	-.00143	.00016
-9.998	441.340	5.02510	-.00024	.00304	.05453	.01575	.02654	-.00185	-.00131	.00001
-9.983	491.200	5.02400	-.00030	.00488	.03557	.01432	.02851	-.00209	-.00127	.00007
-9.957	590.930	5.02200	-.00017	.00100	-.01831	.01929	.02502	-.00194	-.00134	.00008
-9.995	691.270	5.02030	-.00020	.00390	-.03179	.02291	.02631	-.00178	-.00127	-.00018
-10.040	791.930	5.02990	-.00019	.00025	-.03557	.02434	.02670	-.00193	-.00128	-.00017
-10.004	991.420	5.02340	-.00019	.00047	-.03704	.02474	.02636	-.00168	-.00130	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2422/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.019	167.140	5.04567	.00002	.00360	.08507	.03606	.03383	-.00210	-.00132	.00017
-4.986	191.090	5.04220	-.00005	-.00196	.07882	.03249	.03268	-.00209	-.00130	.00023
-4.980	240.770	5.03559	-.00013	-.00336	.05479	.02595	.03236	-.00198	-.00131	.00029
-5.013	291.330	5.03259	-.00013	.00127	.04175	.02412	.03084	-.00183	-.00134	-.00004
-4.974	390.630	5.03040	-.00020	.00251	.03483	.01935	.02805	-.00217	-.00133	-.00002
-4.920	490.690	5.02494	-.00027	.00553	.00235	.01709	.02371	-.00203	-.00130	.00004
-4.999	591.240	5.02304	-.00017	.00154	-.02925	.02217	.02540	-.00200	-.00133	-.00030
-5.036	691.850	5.02036	-.00019	.00084	-.03712	.02457	.02726	-.00194	-.00129	-.00019
-5.014	791.390	5.02554	-.00017	.00275	-.03691	.02457	.02737	-.00188	-.00131	-.00020
-5.004	991.230	5.02886	-.00019	.00532	-.03692	.02458	.02738	-.00185	-.00129	-.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK055) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2417/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.030	317.740	400.17000	.41240	.01699	-.10691	440.27000	.00000	.00000	658.90000	.00000	.00000
-9.988	341.500	399.93000	1.48820	.01414	-.11970	439.93000	.00000	.00000	658.48000	.00000	.00000
-10.063	391.910	400.03000	-1.01410	.06902	-.01501	438.95000	.00000	.00000	656.93000	.00000	.00000
-9.998	441.340	400.02000	.01134	.02044	-.09087	437.95000	.00000	.00000	655.44000	.00000	.00000
-9.983	491.200	399.94000	.15069	.01334	-.09583	437.09000	.00000	.00000	654.14000	.00000	.00000
-9.967	590.930	399.85000	-.08002	.05413	-.02431	437.10000	.00000	.00000	654.16000	.00000	.00000
-9.995	691.270	400.08000	.10083	.02053	-.05009	435.91000	.00000	.00000	652.39000	.00000	.00000
-10.040	791.930	400.20000	.03570	.03751	-.04351	440.34000	.00000	.00000	659.01000	.00000	.00000
-10.004	991.420	400.10000	-.14790	.03423	-.03877	446.65000	.00000	.00000	668.45000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2422/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.019	167.140	399.97000	.12449	.03393	-.00083	444.40000	.00000	.00000	665.08000	.00000	.00000
-4.996	191.090	400.10000	-.31730	.01475	-.03463	444.67000	.00000	.00000	665.33000	.00000	.00000
-4.990	240.770	399.93000	-.49390	.00533	-.03039	444.33000	.00000	.00000	665.05000	.00000	.00000
-5.013	291.330	400.03000	.04406	.01440	-.03042	444.45000	.00000	.00000	665.16000	.00000	.00000
-4.974	390.630	400.03000	.01735	.00223	-.05332	444.03000	.00000	.00000	664.82000	.00000	.00000
-4.980	490.680	400.06000	.30545	.02044	-.05216	443.97000	.00000	.00000	664.44000	.00000	.00000
-4.999	591.240	400.05000	-.13290	.02741	-.03123	444.10000	.00000	.00000	664.64000	.00000	.00000
-5.036	691.850	400.12000	-.00350	.02689	-.02478	443.83000	.00000	.00000	664.22000	.00000	.00000
-5.014	791.390	400.07000	.04564	.02464	-.02320	443.75000	.00000	.00000	664.12000	.00000	.00000
-5.004	891.230	400.20000	.33384	.02249	-.02137	443.60000	.00000	.00000	664.18000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK055) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2417/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.030	317.740	957.06000	957.06000	79.00000	957.06000	966.64000	80.00000	72.00000	24.51500	99.76800
-9.988	341.500	956.93000	956.93000	79.00000	956.93000	966.64000	80.00000	72.00000	23.50300	99.76800
-10.063	391.910	957.07000	957.07000	79.00000	957.07000	966.64000	80.00000	72.00000	20.60300	99.76800
-9.903	441.340	956.82000	956.82000	79.00000	956.82000	966.64000	80.00000	72.00000	17.21000	99.76800
-9.933	491.200	956.83000	956.83000	79.00000	956.83000	966.64000	80.00000	72.00000	15.64400	99.76800
-9.957	590.930	956.82000	956.82000	79.00000	956.82000	966.64000	80.00000	72.00000	13.60300	99.76800
-9.935	691.270	957.12000	957.12000	79.00000	957.12000	966.64000	80.00000	72.00000	9.65120	99.76800
-10.040	791.930	958.19000	958.19000	79.00000	958.19000	966.64000	80.00000	72.00000	6.75030	99.76800
-10.004	991.420	971.19000	971.19000	79.00000	971.19000	966.64000	80.00000	72.00000	3.99340	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2422/ 0 RN/L = .65 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.019	167.140	977.60000	977.60000	78.00000	977.60000	977.30000	79.00000	72.00000	1.33730	99.76800
-4.986	191.090	977.97000	977.97000	78.00000	977.97000	977.30000	79.00000	72.00000	.58991	99.76800
-4.980	240.770	977.55000	977.55000	78.00000	977.55000	977.30000	79.00000	72.00000	.68114	99.76800
-5.013	291.330	977.72000	977.72000	78.00000	977.72000	977.30000	79.00000	72.00000	2.51040	99.76800
-4.974	390.630	977.90000	977.90000	78.00000	977.90000	977.30000	79.00000	72.00000	3.60970	99.76800
-4.990	490.630	977.64000	977.64000	78.00000	977.64000	977.30000	79.00000	72.00000	5.22840	99.76800
-4.999	591.240	977.82000	977.82000	78.00000	977.82000	977.30000	79.00000	72.00000	5.64720	99.76800
-5.036	691.630	977.61000	977.61000	78.00000	977.61000	977.30000	79.00000	72.00000	3.93140	99.76800
-5.014	791.390	977.63000	977.63000	78.00000	977.63000	977.30000	79.00000	72.00000	2.02690	99.76800
-5.004	991.230	978.24000	978.24000	78.00000	978.24000	977.30000	79.00000	72.00000	.01652	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK055) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	400.300
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2417/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CII	CLM	CY	CYN	CBL	CA
-10.030	317.740	400.17000	.41240	-5.00420	.00335	-.03390	.02414	.00488	.00010	.00085	.11723
-9.998	341.500	399.95000	1.46820	-4.95450	.02707	-.02574	.02959	.00805	-.00129	.00103	.12382
-10.063	391.910	400.00000	-1.01410	-5.03630	-.01605	-. 6051	.00014	.00518	.00055	.00033	.09591
-9.998	441.340	400.02000	.01134	-4.97190	.00280	-. 4038	-.00203	.00484	.00041	.00018	.09421
-9.983	491.200	399.94000	.15069	-4.95900	.00458	-. 4144	.00500	.00565	-.00017	.00015	.09815
-9.967	590.930	399.85000	-.06882	-4.94150	.00083	-. 4354	.01825	.00755	-.00068	.00012	.10960
-9.995	691.270	400.06000	.10983	-4.95510	.00371	-. 2157	.01533	.00907	-.00068	.00025	.11106
-10.040	791.930	400.20000	.03670	-5.01010	.00006	-.16348	-.01182	.00588	.00049	.00000	.09011
-10.004	991.420	400.10000	-.14790	-4.97460	.00028	-.16152	-.01538	.00511	.00062	-.00005	.09249
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2422/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CII	CLM	CY	CYN	CBL	CA
-5.019	167.140	399.97000	.12449	.02657	.00363	-..3408	.00018	.00426	.00038	.00007	.10429
-4.986	191.090	400.10000	-.31730	.05500	-.00201	-. 3156	.00702	.00553	-.00014	-.00003	.10575
-4.930	240.770	399.93000	-.49200	.05540	-.00349	-. 1821	.01342	.00754	-.00066	.00009	.10247
-5.013	291.330	400.06000	.04406	.01558	.00114	-.18031	.00340	.00536	.00019	.00020	.08896
-4.974	390.630	400.05000	.01735	.05400	.00341	-.07233	.01550	.00549	-.00034	.00005	.09480
-4.980	490.680	400.06000	.30545	.04504	.00537	-.07025	.02721	.00457	-.00017	.00001	.10378
-4.999	591.240	400.05000	-.13290	.02884	.00136	-.14967	.02380	.00614	-.00061	.00008	.10539
-5.036	691.850	400.12000	-.00350	-.00614	.00065	-.11011	.00197	.00426	.00028	-.00006	.08673
-5.014	791.390	400.07000	.04564	.01604	.00258	-.10580	.00080	.00444	.00028	-.00007	.08969
-5.004	991.230	400.20000	.33354	.02557	.00613	-.10487	.00113	.00424	.00034	-.00006	.09021
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK056) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2746/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-20.021	625.050	600.16000	.05407	.00193	.32475	-.00106	-.00021	-.00065	.00071	-.04628	.23349
-20.066	700.680	600.36000	-.10043	-.00143	.29856	.10829	.00011	-.00072	.00007	-.04112	.23387
-19.993	799.890	600.12000	.17903	.00648	.28891	.11200	-.00019	-.00062	.00029	-.03868	.23387
-19.991	999.210	599.97000	.24252	.00810	.28869	.11198	-.00031	-.00059	.00030	-.03859	.23363
	GRADIENT	.00000	.00000	.00000	.00000	.10000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2750/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-15.495	499.600	600.14000	.04260	.00311	.36433	-.00353	.00022	-.00069	.00087	-.04042	.23250
-15.516	549.660	600.12000	.54218	.01097	.31158	.00451	-.00043	-.00059	.00060	-.03927	.23236
-15.552	600.410	600.35000	.03130	.00178	.29592	.00800	-.00023	-.00072	-.00008	-.03981	.23239
-15.538	700.270	600.31000	.28437	.00377	.26312	.01167	-.00052	-.00052	.00030	-.03664	.23259
-15.438	798.830	599.84000	.48281	.01244	.28502	.01185	-.00054	-.00055	.00030	-.03665	.23151
-15.514	999.370	600.01000	.29398	.00654	.22335	.01190	-.00059	-.00057	.00031	-.03699	.23212
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK056) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2746/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.021	625.050	5.01800	-.00019	.00193	-.00833	.00938	-.00235	.00717	-.00160	.00075
-20.065	700.680	5.02800	-.00001	-.00143	-.03285	.01921	.00272	.00748	-.00166	.00011
-19.993	799.890	5.02200	-.00008	.00648	-.04400	.02254	.00523	.00719	-.00156	.00034
-19.991	999.210	5.02900	-.00010	.00810	-.04335	.02291	.00526	.00706	-.00153	.00034
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK056) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2750/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.495	499.600	5.01500	-.00022	.00311	.03678	.00424	.00278	.00748	-.00162	.00091
-15.516	549.860	5.02200	-.00019	.01097	-.01602	.01528	.00394	.00683	-.00151	.00064
-15.552	600.410	5.02500	.00000	.00178	-.03130	.01875	.00434	.00702	-.00164	-.00004
-15.538	700.270	5.02800	-.00017	.00377	-.04181	.02244	.00651	.00675	-.00144	.00035
-15.438	793.830	5.02800	-.00013	.01244	-.04235	.02264	.00666	.00674	-.00147	.00035
-15.514	999.370	5.02800	-.00012	.00634	-.04270	.02273	.00648	.00672	-.00150	.00035
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK056) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2746/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-20.021	625.050	600.16000	.05407	.03780	-.06183	440.90000	.00000	.00000	659.65000	.00000	.00000
-20.056	700.680	600.36000	-.10043	.03628	-.05971	440.01000	.00000	.00000	658.51000	.00000	.00000
-19.993	799.890	600.12000	.17903	.03944	-.05523	440.67000	.00000	.00000	659.50000	.00000	.00000
-19.991	999.210	599.97000	.24252	.04194	-.05694	440.18000	.00000	.00000	658.76000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2750/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-15.495	499.600	600.14000	.04280	.02434	-.07607	433.97000	.00000	.00000	648.87000	.00000	.00000
-15.516	549.860	600.12000	.54218	.05371	.00697	433.68000	.00000	.00000	648.99000	.00000	.00000
-15.552	600.410	600.35000	.03130	.02725	-.03329	433.13000	.00000	.00000	648.22000	.00000	.00000
-15.538	700.270	600.31000	.22437	.02699	-.03159	434.07000	.00000	.00000	649.62000	.00000	.00000
-15.438	793.830	599.84000	.48831	.03073	-.03360	434.63000	.00000	.00000	650.51000	.00000	.00000
-15.514	999.370	600.01000	.29398	.03618	-.04761	436.23000	.00000	.00000	652.86000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK056) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2746/ 0 RN/L = .86 GRADIEN' INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLFBAL	TB1	TB2	DT	T
-20.021	625.050	979.17000	979.17000	87.00000	979.17000	578.82000	73.00000	78.00000	-4.55480	99.64200
-20.066	700.680	979.13000	979.13000	87.00000	979.13000	578.82000	73.00000	78.00000	-3.50110	99.64200
-19.993	799.690	979.13000	979.13000	87.00000	979.13000	578.82000	73.00000	78.00000	-1.16210	99.64200
-19.991	999.210	979.01000	979.01000	87.00000	979.01000	578.82000	73.00000	78.00000	1.08370	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2750/ 0 RN/L = .87 GRADIEN' INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLFBAL	TB1	TB2	DT	T
-15.485	499.600	971.48000	971.48000	85.00000	971.48000	577.27000	7.00000	78.00000	-2.60520	99.64200
-15.516	549.860	971.19000	971.19000	85.00000	971.19000	577.27000	7.00000	78.00000	-3.90200	99.64200
-15.552	600.410	970.93000	970.93000	85.00000	970.93000	577.27000	7.00000	78.00000	-2.71450	99.64200
-15.538	700.270	971.66000	971.66000	85.00000	971.66000	577.27000	7.00000	78.00000	-1.66690	99.64200
-15.438	798.830	972.50000	972.50000	85.00000	972.50000	577.27000	7.00000	78.00000	-1.21150	99.64200
-15.514	899.370	977.46000	977.46000	85.00000	977.46000	577.27000	7.00000	78.00000	-.69360	99.64200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK056) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2746/ 0 RN/L = .86 GRADIEN' INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.021	625.050	600.16000	.05407	-15.00300	.00173	-.04423	-.01794	-.01317	.00009	.00018	.10672
-20.066	700.680	600.38000	-.10043	-15.04000	-.00145	-.03444	-.01270	.01492	-.00045	.00033	.11350
-19.993	799.690	600.12000	.17903	-14.93500	.00840	-.04877	.01282	.01404	-.00114	.00020	.13174
-19.991	999.210	599.97000	.24252	-14.93200	.00800	-.05874	-.01079	.01097	-.00005	.00014	.12332
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING I'ROM ORB (O4RC1) (AVK056) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1329.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	800.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2750/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.495	499.600	600.14000	.04280	-10.48000	.00290	-.28295	-.00146	.01059	-.00025	.00017	.10792
-15.516	549.860	600.12000	.54218	-10.49400	.01078	-.24559	-.01378	.01079	-.00007	-.00000	.10348
-15.552	600.410	600.35000	.03130	-10.52700	.00178	-.23951	-.01089	.01147	-.00020	.00006	.10722
-15.538	700.270	600.31000	.28437	-10.51000	.00360	-.24780	.00864	.01179	-.00072	.00002	.11891
-15.438	798.830	599.84000	.48281	-10.41000	.01231	-.23688	.01781	.01227	-.00124	.00003	.12738
-15.514	999.370	600.01000	.29398	-10.48500	.00652	-.23899	-.03134	.00780	.00099	-.00018	.09730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK057) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2426/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-9.979	317.140	-.07997	54.02600	2.99600	.53420	.02243	-.01230	.00059	-.00376	.00202	.23466
-10.024	342.060	.01752	54.26200	2.99630	.49970	.01855	-.01085	.00068	-.00313	-.00148	.23437
-9.984	390.910	-.15925	53.98600	2.99530	.45352	.00805	-.01108	.00026	-.00283	-.01084	.23454
-9.984	441.090	-.08808	54.33400	3.00170	.41612	.00639	-.01072	.00034	-.00111	-.01631	.23389
-9.984	491.240	-.02469	53.95100	2.99900	.40598	.00460	-.01054	.00021	-.00089	-.01577	.23442
-10.005	591.320	-.05637	54.00800	3.00040	.37114	.00657	-.00886	-.00028	-.00007	-.01448	.23464
-10.051	692.050	.13461	53.91100	2.99240	.33514	.00576	-.00891	-.00036	.00051	-.01770	.23465
-10.003	791.660	.10100	53.93900	2.99510	.30236	.01120	-.00872	-.00034	-.00034	-.01913	.2344'
-10.003	991.550	.03621	54.07600	2.99780	.28645	.01343	-.00912	-.00031	-.00023	-.01741	.23447
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK057) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = 3.000 X = .000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2432/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
-5.076	169.890	.02616	54.52100	3.02470	.35050	.02913	-.01226	.00051	-.00247	.00176	.23562
-5.001	191.310	.08310	53.42600	2.98740	.37357	.02816	-.00996	.00194	-.00260	.00119	.23485
-5.001	241.350	.05371	53.77300	2.98370	.40215	.02505	-.01391	.00003	-.00221	-.00550	.23463
-4.985	290.900	-.01240	54.16300	2.98020	.38308	.02038	-.01098	.00046	-.00119	-.01221	.23345
-4.975	390.590	-.00334	54.23100	3.00260	.33785	.01806	-.01002	-.00009	-.00056	-.01610	.23550
-4.998	491.280	.03492	53.63400	2.98420	.35462	.01207	-.00937	-.00030	-.00016	-.01497	.23492
-5.031	591.730	.00703	53.43800	2.98530	.35483	.00657	-.00930	-.00036	.00006	-.01704	.23475
-5.008	691.410	.05035	53.61200	2.98080	.30393	.01102	-.00928	-.00039	-.00010	-.02002	.23513
-5.010	791.440	.10691	54.20800	2.98370	.30070	.01334	-.00934	-.00031	-.00025	-.01822	.23504
-5.009	891.380	.02134	54.19100	2.98030	.25630	.01358	-.00941	-.00033	-.00025	-.01762	.23473
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2438/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
.020	18.827	.87433	55.17900	3.03850	.25234	.00024	-.01406	-.00116	-.00053	-.02057	.23321
-.029	50.195	.15650	54.22000	2.99710	.25937	.00866	-.01214	-.00080	-.00094	-.01055	.23344
-.040	100.760	.05126	53.63200	2.98860	.30259	.02142	-.01220	.00071	-.00097	-.00398	.23262
.008	149.250	.01471	53.81100	2.98610	.33209	.02431	-.01055	.00135	-.00191	-.00663	.23301
.016	199.060	.00270	53.93000	2.99740	.34786	.02491	-.01198	-.00033	-.00135	-.01053	.23356
.029	293.460	.00937	54.00200	3.00930	.33095	.02253	-.01042	-.00011	-.00072	-.01605	.23374
-.021	399.270	-.01770	54.02600	2.99730	.34720	.01558	-.00889	-.00020	-.00043	-.01496	.23374
-.020	499.360	.06951	53.65200	2.98000	.35109	.00856	-.00971	-.00027	-.00022	-.01694	.23339
-.008	599.280	.04102	53.83100	2.99370	.31633	.00909	-.00935	-.00034	.00011	-.01998	.23345
-.014	799.380	.03665	53.70700	2.99150	.25817	.01357	-.00937	-.00029	-.00023	-.01897	.23389
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2444/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	C_MR	CYR	CYNR	CBLR	CAR	HM
5.083	-53.307	2.11420	54.69500	3.02830	.25332	-.00100	-.01360	-.00072	.00012	-.03307	.23412
4.955	15.612	-.07488	54.40400	2.99220	.25195	.00432	-.01166	-.00032	-.00093	-.00958	.23394
4.965	50.367	-.01395	53.75700	2.98580	.28390	.01668	-.01123	.00069	-.00059	-.00599	.23438
5.010	99.127	.09139	53.93400	3.00160	.30575	.02451	-.01143	.00052	-.00074	-.00553	.23406
5.024	199.560	.12057	54.12800	3.00220	.33441	.02515	-.01004	-.00009	-.00041	-.01342	.23436
4.994	299.070	.14703	54.20400	3.00000	.33143	.01970	-.01027	-.00031	-.00061	-.01555	.23427
4.986	399.200	.13557	54.19200	2.98440	.34920	.01234	-.00883	-.00035	-.00028	-.01579	.23401
4.990	479.180	.04852	54.27700	3.00040	.34405	.00839	-.00934	-.00040	-.00018	-.01746	.23468
	GRADIENT	-.00480	3.48476	.19211	.01614	.00028	-.00076	-.00002	-.00006	-.00061	.01498

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK057) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DSETA =	3.000	X =	.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2426/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.979	317.140	5.04970	-.00090	2.99000	.20726	.03318	.04514	-.00506	-.00033	-.00372
-10.024	342.060	5.04490	-.00120	2.99330	.17218	.02928	.04159	-.00352	-.00024	-.00308
-9.984	390.910	5.03830	-.00060	2.99330	.12726	.01877	.03239	-.00395	-.00066	-.00259
-9.984	441.090	5.02830	-.00100	3.00170	.08085	.01710	.03071	-.00349	-.00058	-.00107
-10.005	591.320	5.02730	-.00080	2.99000	.07870	.01535	.02739	-.00328	-.00072	-.00055
-10.051	692.050	5.02770	-.00040	3.00040	.04293	.01736	.02030	-.00159	-.00120	-.00003
-10.003	791.880	5.02800	-.00020	2.99340	.00510	.01631	.02002	-.00160	-.00129	.00056
-10.003	891.880	5.03000	-.00020	2.99710	-.02022	.02203	.02483	-.00133	-.00127	-.00030
	GRADIENT	.00000	.00000	.00000	-.03335	.02433	.02035	-.00176	-.00125	-.00019
					.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2432/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.076	189.890	5.04819	-.00090	3.02470	.01527	.04015	.04597	-.00483	-.00044	-.00243
-5.001	191.310	5.04857	-.00240	2.98740	.03777	.03020	.04550	-.00252	.00100	-.00275
-5.001	241.350	5.04407	-.00040	2.99370	.00884	.03310	.03934	-.00348	-.00082	-.00216
-4.995	290.900	5.04026	-.00100	2.99110	.00019	.03104	.03218	-.00322	-.00049	-.00115
-4.973	350.880	5.03536	-.00030	3.00280	.02070	.02814	.03033	-.00283	-.00104	-.00051
-4.988	491.280	5.03139	-.00030	2.99420	.02750	.02314	.02948	-.00190	-.00125	-.00011
-5.031	591.730	5.03003	-.00020	2.99030	.01739	.01783	.02747	-.00183	-.00131	.00010
-5.008	631.410	5.02783	-.00020	2.99150	-.00031	.02210	.02445	-.00181	-.00134	-.00005
-5.010	791.440	5.02673	-.00030	2.99370	-.03013	.02439	.02611	-.00169	-.00126	-.00020
-5.009	891.330	5.02637	-.00020	2.99030	-.03916	.02439	.02031	-.00198	-.00128	-.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2438/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.020	18.827	5.01576	.00060	3.03030	-.09289	.01125	.02361	-.00653	-.00211	-.00048
-.029	50.195	5.02103	.00030	2.99710	-.07530	.01767	.03363	-.00472	-.00174	-.00089
-.040	100.760	5.03705	-.00120	2.99350	-.03174	.03342	.04017	-.00479	-.00023	-.00093
.008	149.250	5.04103	-.00160	2.99310	-.00244	.03820	.03749	-.00314	.00041	-.00166
.016	198.030	5.04083	.00000	2.99740	.01335	.03000	.03332	-.00488	-.00127	-.00131
.029	203.460	5.02139	-.00030	3.00030	-.00035	.03125	.02784	-.00303	-.00105	-.00038
-.021	303.270	5.03402	-.00030	2.99730	.01334	.03003	.03000	-.00350	-.00114	-.00039
-.020	499.330	5.02703	-.00030	2.99000	.01800	.01950	.02439	-.00233	-.00121	-.00018
-.008	599.280	5.03079	-.00030	2.99370	-.01615	.02002	.02401	-.00197	-.00128	.00015
-.014	799.380	5.02935	-.00030	2.99150	-.03824	.02449	.02487	-.00200	-.00122	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1: W/ET SEPARATING (SVK057) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = 3.000 X = .000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2444/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.083	-53.307	5.01500	.00010	3.02890	-.08241	.01003	.01121	-.00616	-.00167	.00017
4.955	15.612	5.01930	-.00030	2.99320	-.08423	.01537	.03475	-.00441	-.00126	-.00088
4.965	50.357	5.03180	-.00120	2.98030	-.05241	.02773	.03337	-.00378	-.00026	-.00055
5.010	93.127	5.04000	-.00100	3.00160	-.02206	.03857	.03503	-.00397	-.00043	-.00069
5.024	193.550	5.04190	-.00030	3.00220	-.00236	.03022	.03100	-.00259	-.00104	-.00036
4.934	293.970	5.03700	-.00010	3.00000	-.00303	.03078	.02002	-.00280	-.00126	-.00057
4.996	393.200	5.03130	-.00020	2.99440	.01152	.02344	.02075	-.00250	-.00131	-.00024
4.990	479.180	5.02710	-.00020	3.00040	.00026	.01949	.02709	-.00235	-.00135	-.00013
	GRADIENT	.32150	-.00002	.19211	-.00540	.00098	.00223	-.00028	-.00008	-.00006

V41B-D9A (IA22),ORBITER(04RC1: W/ET SEPARATING (TVK057) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = 3.000 X = .000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2426/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.979	317.140	-.07997	54.02600	-.02773	-.20653	432.77000	.00000	.00000	647.69000	.00000	.00000
-10.024	342.060	.01752	54.26200	-.07265	-.24454	432.21000	.00000	.00000	646.83000	.00000	.00000
-9.934	390.910	-.15925	53.98500	.21190	.22232	431.87000	.00000	.00000	646.33000	.00000	.00000
-9.934	441.090	-.08308	54.33400	.01770	-.08324	431.75000	.00000	.00000	646.15000	.00000	.00000
-9.964	491.240	-.02489	53.95100	.01531	-.07978	433.22000	.00000	.00000	648.35000	.00000	.00000
-10.005	591.320	-.05537	54.00300	.01354	-.05760	434.43000	.00000	.00000	650.20000	.00000	.00000
-10.051	692.050	.13461	53.91100	.08325	-.05787	436.89000	.00000	.00000	653.88000	.00000	.00000
-10.003	791.630	.10100	53.98300	.03219	-.03137	438.28000	.00000	.00000	655.68000	.00000	.00000
-10.003	931.550	.03521	54.07600	.03075	-.02170	439.20000	.00000	.00000	657.31000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC): W/ET SEPARATING (TVK057) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2432/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.076	169.890	.02616	54.52100	-.05356	-.15773	443.74000	.00000	.00000	664.10000	.00000	.00000
-5.001	191.310	.06810	54.42600	-.00262	-.10356	444.64000	.00000	.00000	665.44000	.00000	.00000
-5.001	241.350	.05371	53.77300	.02303	-.05632	445.04000	.00000	.00000	665.04000	.00000	.00000
-4.995	290.900	-.01240	54.18900	.02003	-.04739	445.55000	.00000	.00000	666.80000	.00000	.00000
-4.975	390.590	-.09354	54.23100	.01522	-.04367	446.29000	.00000	.00000	667.91000	.00000	.00000
-4.998	491.280	.03492	53.63400	.01180	-.04414	446.11000	.00000	.00000	667.65000	.00000	.00000
-5.031	591.730	.00703	53.43800	.00217	-.06397	446.39000	.00000	.00000	668.07000	.00000	.00000
-5.008	691.410	.05035	53.61200	.02587	-.01552	446.41000	.00000	.00000	668.09000	.00000	.00000
-5.010	791.440	.10591	54.20800	.02324	-.01500	444.93000	.00000	.00000	665.87000	.00000	.00000
-5.009	991.390	.02134	54.19100	.02051	-.01199	443.92000	.00000	.00000	664.35000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2438/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.020	18.827	.87433	55.17900	-.03482	.03783	443.47000	.00000	.00000	663.69000	.00000	.00000
-.029	50.195	.15350	54.22000	-.03083	.03522	443.40000	.00000	.00000	663.59000	.00000	.00000
-.040	100.760	.05126	53.63200	-.02186	.03333	443.68000	.00000	.00000	663.11000	.00000	.00000
.008	149.250	.01471	53.81100	-.02397	.04330	442.81000	.00000	.00000	662.71000	.00000	.00000
.016	199.060	.03270	53.93000	-.02045	.07154	442.12000	.00000	.00000	661.67000	.00000	.00000
.029	248.460	.00037	54.02000	-.03082	.06009	441.60000	.00000	.00000	660.82000	.00000	.00000
-.021	349.270	-.01770	54.02090	-.04112	.04387	441.22000	.00000	.00000	660.32000	.00000	.00000
-.020	499.360	.06951	53.65200	-.04707	.01972	440.90000	.00000	.00000	659.85000	.00000	.00000
-.008	599.280	.04102	53.63100	-.01204	.07365	440.49000	.00000	.00000	659.23000	.00000	.00000
-.014	799.390	.02335	53.70700	-.02432	.06579	440.01000	.00000	.00000	658.51000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2444/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.083	-53.307	2.11420	54.69300	-.01654	.03349	444.42000	.00000	.00000	665.11000	.00000	.00000
4.955	15.612	-.07488	54.40400	-.03511	.01870	445.09000	.00000	.00000	665.89000	.00000	.00000
4.955	50.367	-.01385	53.75700	-.02234	.04385	445.12000	.00000	.00000	665.25000	.00000	.00000
5.010	99.127	.03139	53.52400	-.01781	.04508	445.52000	.00000	.00000	665.82000	.00000	.00000
5.024	198.060	.12167	54.12000	-.02109	.04509	445.77000	.00000	.00000	667.14000	.00000	.00000
4.994	298.970	.14703	54.20400	-.02008	.04001	446.47000	.00000	.00000	668.16000	.00000	.00000
4.993	399.200	.13337	54.19300	-.03845	.02542	446.58000	.00000	.00000	668.95000	.00000	.00000
4.990	479.180	.04852	54.27700	-.04536	.00457	447.14000	.00000	.00000	669.18000	.00000	.00000
	GRADIENT	-.00480	3.48476	-.00231	.00120	28.50372	.00000	.00000	42.65885	.00000	.00000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DSETA = 3.000 X = .000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2426/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.979	317.140	976.42000	976.42000	80.00000	976.42000	976.21000	65.00000	72.00000	13.97700	99.76800
-10.024	342.060	976.59000	976.59000	80.00000	976.59000	976.21000	65.00000	72.00000	23.39400	99.76800
-9.984	390.910	976.77000	976.77000	80.00000	976.77000	976.21000	65.00000	72.00000	26.58300	99.76800
-9.984	441.090	976.50000	976.50000	80.00000	976.50000	976.21000	65.00000	72.00000	22.42900	99.76800
-9.984	491.240	976.93000	976.93000	80.00000	976.93000	976.21000	65.00000	72.00000	18.77700	99.76800
-10.005	591.320	976.83000	976.83000	80.00000	976.83000	976.21000	65.00000	72.00000	15.31600	99.76800
-10.051	692.050	976.93000	976.93000	80.00000	976.93000	976.21000	65.00000	72.00000	13.38300	99.76800
-10.003	791.630	977.18000	977.18000	80.00000	977.18000	976.21000	65.00000	72.00000	11.14800	99.76800
-10.003	991.550	977.34000	977.34000	80.00000	977.34000	976.21000	65.00000	72.00000	7.21670	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2432/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.076	169.890	978.61000	978.61000	79.00000	978.61000	978.39999	64.00000	73.00000	.39997	99.76800
-5.001	191.310	978.13000	978.13000	79.00000	978.13000	978.39999	64.00000	73.00000	7.17640	99.76800
-5.001	241.350	978.02000	978.02000	79.00000	978.02000	978.39999	64.00000	73.00000	9.31290	99.76800
-4.995	290.900	977.83000	977.83000	79.00000	977.83000	978.39999	64.00000	73.00000	7.33720	99.76800
-4.975	390.590	978.30000	978.30000	79.00000	978.30000	978.39999	64.00000	73.00000	6.41290	99.76800
-4.998	491.280	977.92000	977.92000	79.00000	977.92000	978.39999	64.00000	73.00000	5.29490	99.76800
-5.031	591.730	978.04000	978.04000	79.00000	978.04000	978.39999	64.00000	73.00000	5.15350	99.76800
-5.008	691.410	977.52000	977.52000	79.00000	977.52000	978.39999	64.00000	73.00000	5.41410	99.76800
-5.010	791.440	977.72000	977.72000	79.00000	977.72000	978.39999	64.00000	73.00000	3.93260	99.76800
-5.009	991.330	977.52000	977.52000	79.00000	977.52000	978.39999	64.00000	73.00000	1.48610	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.020	18.827	976.04000	976.04000	79.00000	976.04000	975.82999	66.00000	72.00000	-2.61550	99.76800
-.029	50.195	975.82000	975.82000	79.00000	975.82000	975.82999	66.00000	72.00000	-2.34720	99.76800
-.010	100.780	975.82000	975.82000	79.00000	975.82000	975.82999	66.00000	72.00000	-2.29130	99.76800
.003	149.230	975.82000	975.82000	79.00000	975.82000	975.82999	66.00000	72.00000	-2.46410	99.76800
.016	199.080	975.82000	975.82000	79.00000	975.82000	975.82999	66.00000	72.00000	-2.57490	99.76800
.029	293.460	975.34000	975.34000	79.00000	975.34000	975.82999	66.00000	72.00000	-2.23810	99.76800
-.021	399.270	975.57000	975.57000	79.00000	975.57000	975.82999	66.00000	72.00000	-1.66940	99.76800
-.020	499.350	975.27000	975.27000	79.00000	975.27000	975.82999	66.00000	72.00000	.64206	99.76800
-.008	599.260	975.33000	975.33000	79.00000	975.33000	975.82999	66.00000	72.00000	4.17760	99.76800
-.014	799.380	975.24000	975.24000	79.00000	975.24000	975.82999	66.00000	72.00000	2.60110	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

TABULATED SOURCE DATA, IA22, (AEDC V41B-D9A)

V41B-D9A (IA22),ORBITER(O4RC1..W/ET SEPARATING (UVK057) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	[illegible].000	X =	.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2444/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.083	-53.307	976.65000	976.65000	79.00000	976.65000	976.43999	64.00000	72.00000	-5.27520	99.89400
4.955	15.612	976.63000	976.63000	79.00000	976.63000	976.43999	64.00000	72.00000	-5.76530	99.89400
4.935	50.357	976.63000	976.63000	79.00000	976.63000	976.43999	64.00000	72.00000	-6.09320	99.89400
5.010	99.127	976.71000	976.71000	79.00000	976.71000	976.43999	64.00000	72.00000	-6.23430	99.89400
5.024	193.550	976.63000	976.63000	79.00000	976.63000	976.43999	64.00000	72.00000	-6.32860	99.89400
4.994	293.670	976.72000	976.72000	79.00000	976.72000	976.43999	64.00000	72.00000	-6.23190	99.89400
4.936	399.200	976.63000	976.63000	79.00000	976.63000	976.43999	64.00000	72.00000	-5.62330	99.89400
4.990	479.160	976.70000	976.70000	79.00000	976.70000	976.43999	64.00000	72.00000	-4.06060	99.89400
	GRADIENT	62.57750	62.57750	5.06021	62.57750	62.54420	4.09541	4.61184	-.36929	6.39854

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK057) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	3.000	X =	.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2426/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.979	317.140	-.07997	54.02600	-4.92900	2.99510	- 22568	.03813	-.03384	-.00984	.00086	.10896
-10.024	342.060	.01752	54.26200	-4.97910	2.99510	- 18333	.01884	-.03535	-.00843	.00051	.09789
-9.984	390.910	-.18825	53.98500	-4.95080	2.99450	- 15553	.01506	-.03513	-.00804	.00045	.09733
-9.994	441.090	-.08308	54.33400	-4.98430	3.00070	- 14602	.01783	-.03445	-.00830	.00045	.10027
-9.994	491.240	-.02469	53.95100	-4.93820	2.99310	- 14648	.02399	-.03151	-.00924	.00051	.10878
-10.005	591.320	-.05837	54.00300	-4.97730	3.00000	- 11978	.01777	-.02029	-.01194	.00038	.11341
-10.051	682.050	.13461	53.91100	-5.02020	2.99370	- 09708	-.01303	-.02922	-.01082	.00021	.08956
-10.003	791.660	.10100	53.93000	-4.97600	2.99480	- 08331	-.01543	-.02948	-.01043	.00030	.09075
-10.003	991.550	.03621	54.07600	-4.97300	2.99760	- 05392	-.01530	-.02965	-.01036	.00031	.09319
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK057) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2432/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.076	169.890	.02616	54.52100	-.02941	3.02350	- 10150	.00857	-.03147	-.00722	.00052	.08748
-5.001	191.310	.08810	53.42600	.04687	2.98500	- 09505	.01239	-.03373	-.00851	.00044	.08970
-5.001	241.350	.05371	53.77300	.04386	2.98530	- 09189	.01412	-.03133	-.00787	.00066	.08985
-4.995	290.900	-.01240	54.16900	.04585	2.99780	- 08945	.02203	-.03146	-.00921	.00061	.09252
-4.975	390.590	-.02854	54.23100	.06106	3.00230	- 07648	.03275	-.02747	-.01071	.00038	.10449
-4.998	491.280	.03492	53.63400	.03309	2.98390	- 04854	.02553	-.02678	-.01219	.00020	.10572
-5.031	591.730	.00703	53.43500	-.00822	2.98310	- 00788	.00186	-.02815	-.01132	.00020	.08555
-5.008	691.410	.05035	53.61200	.01593	2.98360	- 00630	.00102	-.02843	-.01076	.00024	.08695
-5.010	791.440	.10091	54.20900	.01973	2.98340	- 00546	.00122	-.02799	-.01030	.00023	.08775
-5.009	991.330	.02154	54.19100	.02137	2.98340	- 00397	.00034	-.02805	-.01060	.00024	.09028
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.020	18.827	.87433	55.17900	5.03820	3.04010	04959	.01017	-.03551	-.00916	.00036	.08111
-.029	50.195	.15550	54.22000	4.98300	2.99740	03553	.00585	-.04392	-.00799	.00031	.08236
-.040	100.760	.05126	53.63300	4.98750	2.99430	- 01000	.00053	-.03439	-.00536	.00042	.08286
.008	149.250	.01471	53.81100	5.04940	2.99430	- 02113	.02012	-.03246	-.00628	.00018	.08733
.016	199.060	.06270	53.93000	5.03810	2.99740	- 02737	.03194	-.02835	-.00771	.00057	.09220
.029	299.460	.00937	54.06300	5.05820	3.00300	- 00340	.04267	-.02410	-.01245	.00021	.10152
-.021	399.270	-.01770	54.02600	5.01310	2.99700	02687	.03000	-.02454	-.01273	.00014	.09392
-.020	499.360	.03551	53.62200	5.00330	2.99370	04902	.01900	-.02835	-.01159	.00024	.08725
-.008	599.260	.04102	53.65100	5.01830	2.99340	04987	.01877	-.02899	-.01123	.00024	.08088
-.014	799.380	.02255	53.70700	5.01830	2.99120	04971	.01889	-.03001	-.01094	.00024	.09115
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2444/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.083	-53.307	2.11420	54.69500	10.09300	3.03900	11910	.02755	-.02384	-.00854	.00017	.08168
4.955	15.612	-.07468	54.40400	9.97430	2.93030	02033	.01945	-.05394	-.00588	.00035	.08306
4.955	50.367	-.01395	53.75700	9.99730	2.99030	07435	.02274	-.03917	-.00493	.00031	.08540
5.010	99.127	.09139	53.95400	10.05000	3.00950	03533	.03053	-.02641	-.00646	.00016	.08824
5.024	198.530	.12037	54.12000	10.06300	3.00790	04905	.05275	-.02317	-.01345	.00010	.09942
4.994	298.870	.14703	54.20400	10.03100	2.99330	05510	.04434	-.02723	-.01369	-.00004	.09540
4.986	399.200	.13537	54.19500	10.01700	2.99120	.11290	.03524	-.03426	-.01125	.00030	.08940
4.990	479.180	.04682	54.27700	10.01700	3.00020	.11378	.03442	-.03443	-.01123	.00031	.09115
	GRADIENT	-.00480	3.48476	.63989	.19209	.00574	.00125	-.00346	-.00038	.00002	.00545

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMSLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2427/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-9.979	317.080	200.06000	53.96900	2.99720	.52943	-.00213	-.01143	.00039	-.00219	-.01741	.23469
-9.983	342.150	200.11000	53.70200	2.98530	.48182	.00046	-.01175	.00062	-.00202	-.01651	.23449
-10.003	391.930	200.03000	54.03000	2.99770	.42084	.00673	-.01062	.00028	-.00114	-.01573	.23526
-10.019	442.070	200.06000	54.27000	3.00130	.38385	.00031	-.00944	-.00011	-.00021	-.01592	.23526
-10.026	492.450	200.10000	54.17200	2.99340	.38484	.00782	-.00877	-.00030	-.00005	-.01543	.23494
-9.995	591.340	199.99000	54.13100	2.99200	.35330	.00435	-.00909	-.00040	.00009	-.01729	.23456
-9.972	691.210	199.99000	54.18000	2.99020	.30206	.01075	-.00897	-.00043	-.00047	-.01995	.23448
-10.006	791.600	200.00000	54.19000	2.99200	.29737	.01341	-.00919	-.00029	-.00024	-.01778	.23445
-10.003	991.480	200.11000	54.03800	2.99030	.29723	.01332	-.00919	-.00030	-.00023	-.01769	.23490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2433/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
-5.030	167.220	199.95000	53.70400	2.99130	.42264	.02839	-.01196	.00046	-.00225	-.00573	.23343
-5.018	192.220	200.10000	54.26300	3.00220	.43308	.02224	-.01099	.00081	-.00198	-.00593	.23368
-5.027	242.260	200.08000	54.18200	2.99220	.40144	.01833	-.01123	.00020	-.00116	-.01195	.23397
-5.041	292.510	200.05000	54.35300	3.00030	.36504	.01823	-.01033	.00017	-.00096	-.01459	.23442
-5.026	392.300	200.07000	54.04000	2.99030	.36344	.01420	-.00919	-.00029	-.00035	-.01393	.23469
-4.976	491.410	199.97000	53.82800	2.99330	.36336	.00707	-.00917	-.00035	-.00012	-.01535	.23428
-4.991	591.310	200.10000	54.13200	3.00100	.32046	.00844	-.00929	-.00040	.00032	-.01691	.23522
-5.008	691.590	200.08000	54.10000	2.99090	.30278	.01227	-.00904	-.00034	-.00027	-.01855	.23517
-5.012	791.420	200.16000	54.33000	3.00110	.28353	.01365	-.00933	-.00032	-.00024	-.01769	.23508
-5.010	991.390	200.02000	54.17800	2.99240	.28330	.01354	-.00935	-.00030	-.00024	-.01763	.23462
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLNR	CYR	CYNR	CBLR	CAR	WM
.019	18.645	200.10000	53.47400	2.99340	.29087	.01924	-.01378	.00092	-.00001	-.00159	.23561
-.023	49.825	200.04000	54.33300	3.00290	.32530	.03115	-.01684	-.00285	-.00131	-.00197	.23578
-.036	100.230	200.11000	54.10300	3.00350	.33405	.03051	-.01322	.00001	-.00179	-.00616	.23543
-.030	150.370	200.03000	54.09900	2.99760	.35332	.02705	-.00930	.00030	-.00134	-.01122	.23580
-.041	200.590	200.03000	53.82600	2.99030	.33958	.02314	-.01066	-.00010	-.00058	-.01518	.23547
-.028	300.260	200.03000	53.99800	2.99040	.34780	.01912	-.00933	-.00019	-.00057	-.01477	.23440
.016	399.440	200.01000	53.71700	2.99360	.35502	.00955	-.00948	-.00031	-.00025	-.01589	.23392
-.001	499.400	200.16000	54.11000	3.00020	.33058	.00710	-.00941	-.00033	.00028	-.01870	.23380
-.005	599.410	200.03000	53.98500	2.99790	.30174	.01152	-.00921	-.00035	-.00039	-.02031	.23365
-.010	799.335	199.94000	54.17200	2.99240	.28317	.01351	-.00939	-.00030	-.00022	-.01876	.23348
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
5.054	-52.713	200.16000	54.74800	3.01890	.26104	.00261	-.01094	.00039	-.00045	-.01375	.23436
4.995	14.528	200.03000	53.87300	2.93480	.31627	.02702	-.01739	-.00343	-.00141	-.00269	.23418
4.982	50.155	200.03000	53.71000	3.00720	.33249	.02851	-.01393	.00075	-.00166	-.00764	.23427
4.940	100.630	199.97000	53.53000	2.93970	.32945	.02842	-.01071	.00003	-.00142	-.01181	.23424
4.972	200.180	200.07000	53.51000	2.93470	.33215	.02116	-.01077	-.00018	-.00035	-.01643	.23453
4.999	299.490	200.03000	53.53000	2.93420	.34839	.01489	-.00002	-.00034	-.00042	-.01551	.23424
4.993	399.390	200.13000	53.50400	2.92330	.34958	.00330	-.00005	-.00041	-.00027	-.01707	.23412
4.988	479.390	200.03000	53.52000	2.93510	.31906	.00035	-.00037	-.00042	.00003	-.01958	.23407
	GRADIENT	13.77203	3.70843	.20613	.02177	.00185	-.00120	-.00024	-.00010	-.00018	.01612

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2427/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.979	317.080	5.02350	-.00110	2.99720	.15517	.00835	.02667	-.00402	-.00055	-.00214
-9.993	342.150	5.02030	-.00130	2.99530	.14737	.01145	.02760	-.00434	-.00032	-.00197
-10.003	391.950	5.02310	-.00020	2.99770	.00385	.01771	.02035	-.00321	-.00036	-.00110	
-10.019	442.070	5.03000	-.00030	3.00130	.03130	.01030	.02018	-.00203	-.00105	-.00016	
-10.026	492.450	5.02250	-.00020	2.99340	.00000	.01680	.02033	-.00137	-.00124	-.00001	
-9.995	591.340	5.02940	-.00020	2.99730	.02667	.01530	.02035	-.00161	-.00134	.00064	
-9.972	691.210	5.02720	-.00020	2.99120	-.02021	.03170	.02559	-.00149	-.00157	-.00043	
-10.006	791.600	5.02370	-.00030	2.99220	-.03577	.02436	.02316	-.00181	-.00123	-.00019	
-10.003	991.480	5.02020	-.00020	2.99030	-.03581	.02445	.02621	-.00181	-.00123	-.00019	
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

V41B-D9A (IA22).ORBITER(04RC1) W/ET SEPARATING (SVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2433/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.030	167.220	5.04698	-.00090	2.99130	.02928	.03934	.03823	-.00457	-.00048	-.00220
-5.018	192.220	5.04455	-.00120	3.00220	.09332	.03391	.03518	-.00348	-.00013	-.00194
-5.027	242.260	5.03948	-.00060	2.99220	.06761	.02939	.03208	-.00383	-.00074	-.00111
-5.041	292.510	5.03723	-.00070	3.00030	.03096	.02927	.02946	-.00293	-.00077	-.00092
-5.026	392.300	5.03343	-.00020	2.99030	.02097	.02519	.03018	-.00178	-.00123	-.00031
-4.976	491.410	5.02702	-.00020	2.99330	.02235	.01806	.02877	-.00176	-.00130	-.00007
-4.991	591.310	5.02332	-.00020	3.00100	-.01404	.01943	.02521	-.00188	-.00134	.00036
-5.008	691.520	5.02005	-.00020	2.99030	-.03189	.02386	.02859	-.00142	-.00128	-.00023
-5.012	791.420	5.01698	-.00020	3.00110	-.03132	.02467	.02582	-.00191	-.00127	-.00020
-5.010	991.390	5.01000	-.00020	2.99040	-.03082	.02404	.02853	-.00193	-.00125	-.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.019	18.645	5.03303	-.00140	2.99340	-.04135	.03016	.04223	-.00642	-.00002	.00004
-.023	49.825	5.04757	.00310	3.00330	-.00273	.04208	.04169	-.00947	-.00389	-.00126
-.035	100.230	5.04814	-.00020	3.00260	.02197	.04143	.03764	-.00566	-.00092	-.00175
-.030	150.370	5.04507	-.00070	2.99760	.02359	.03795	.03557	-.00225	-.00054	-.00129
-.041	200.590	5.04030	-.00030	2.99050	.00771	.03404	.02859	-.00330	-.00104	-.00054
-.028	300.260	5.03624	-.00030	2.99040	.00568	.02900	.02890	-.00249	-.00113	-.00053
.016	399.440	5.02951	-.00020	2.99360	.02400	.02083	.02777	-.00214	-.00124	-.00021
-.001	499.400	5.02575	-.00030	3.00020	-.00036	.01797	.02496	-.00207	-.00127	.00033
-.005	599.410	5.02339	-.00020	2.99790	-.02979	.02241	.02341	-.00185	-.00130	-.00034
-.010	799.330	5.02094	-.00020	2.99340	-.03359	.02441	.02501	-.00204	-.00124	-.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.054	-52.713	5.01840	-.00110	3.01890	-.07824	.01376	.03100	-.00343	-.00057	-.00040
4.985	14.523	5.04170	.00340	2.99460	-.02302	.03817	.04206	-.00987	-.00439	-.00136
4.952	50.155	5.04440	-.00100	3.00720	-.00579	.03976	.03711	-.00532	-.00021	-.00161
4.940	100.630	5.04430	-.00040	2.99370	-.00473	.03657	.03803	-.00319	-.00093	-.00138
4.972	200.180	5.03770	-.00020	2.99470	-.00690	.03230	.03229	-.00326	-.00114	-.00060
4.999	299.490	5.03330	-.00020	2.99420	.00944	.02602	.03319	-.00241	-.00129	-.00038
4.993	399.390	5.02780	-.00020	2.99330	.01128	.01951	.02765	-.00216	-.00135	-.00022
4.988	479.390	5.02710	-.00020	2.99310	-.01832	.02067	.02503	-.00208	-.00138	.00007
	GRADIENT	.34703	.00023	.20613	-.00158	.00263	.00290	-.00068	-.00030	-.00009

V41B-D9A (1A22),ORBITER(04RC1) W/ET SEPARATING (TVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2427/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.979	317.080	200.06000	53.96900	-.01573	-.16352	442.47000	.00000	.00000	662.19000	.00000	.00000
-9.993	342.150	200.11000	53.70200	.00357	-.09128	442.72000	.00000	.00000	662.57000	.00000	.00000
-10.003	391.930	200.03000	54.03000	.02977	-.03108	442.50000	.00000	.00000	662.24000	.00000	.00000
-10.019	442.070	200.06000	54.27000	.00841	-.08035	442.50000	.00000	.00000	662.37000	.00000	.00000
-10.026	492.450	200.18000	54.17000	.02011	-.04072	442.16000	.00000	.00000	661.73000	.00000	.00000
-9.985	591.340	199.92000	54.13100	-.00253	-.08921	441.10000	.00000	.00000	660.14000	.00000	.00000
-9.972	691.210	199.93000	54.19200	.02047	-.01761	441.15000	.00000	.00000	660.22000	.00000	.00000
-10.006	791.600	200.00000	54.19300	.02509	-.01441	440.92000	.00000	.00000	659.97000	.00000	.00000
-10.003	991.480	200.11000	54.05800	.02534	-.01549	440.58000	.00000	.00000	659.33000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2433/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.030	167.220	199.95000	53.70400	.00557	-.03510	441.25000	.00000	.00000	660.39000	.00000	.00000
-5.018	192.220	200.10000	54.26300	.01098	-.02912	441.81000	.00000	.00000	661.20000	.00000	.00000
-5.027	242.260	200.06000	54.18200	-.00388	-.05231	441.50000	.00000	.00000	661.34000	.00000	.00000
-5.041	292.510	200.05000	54.35300	.03701	.02503	442.23000	.00000	.00000	661.83000	.00000	.00000
-5.026	392.300	200.07000	54.04000	.00549	-.02031	442.74000	.00000	.00000	662.60000	.00000	.00000
-4.976	491.410	199.97000	53.82000	-.00539	-.05045	442.72000	.00000	.00000	662.63000	.00000	.00000
-4.991	591.310	200.10000	54.13300	.03091	.02227	442.77000	.00000	.00000	662.65000	.00000	.00000
-5.009	691.500	200.03000	54.10000	.01323	-.00930	443.01000	.00000	.00000	663.00000	.00000	.00000
-5.012	791.420	200.16000	54.36000	.01535	-.00685	442.84000	.00000	.00000	663.55000	.00000	.00000
-5.010	991.390	200.02000	54.17600	.01697	-.00873	442.21000	.00000	.00000	663.30000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.019	18.645	200.10000	53.47400	-.02148	.04382	439.77000	.00000	.00000	658.16000	.00000	.00000
-.023	49.625	200.04000	54.33500	-.01448	.05540	440.10000	.00000	.00000	658.73000	.00000	.00000
-.036	100.230	200.11000	54.10300	-.01877	.04947	439.57000	.00000	.00000	657.63000	.00000	.00000
-.030	150.370	200.03000	54.09900	-.02011	.05310	439.65000	.00000	.00000	657.75000	.00000	.00000
-.041	200.590	200.03000	53.83500	-.02464	.04978	439.31000	.00000	.00000	657.46000	.00000	.00000
-.028	300.260	200.05000	53.93000	-.02411	.05608	439.30000	.00000	.00000	655.98000	.00000	.00000
.016	393.440	200.01000	53.71700	-.03505	.01313	439.16000	.00000	.00000	655.75000	.00000	.00000
-.001	493.400	200.16000	54.11000	-.03535	.01674	439.19000	.00000	.00000	655.79000	.00000	.00000
-.005	599.410	200.08000	53.93500	-.02645	.04891	439.65000	.00000	.00000	656.77000	.00000	.00000
-.010	799.330	199.94000	54.17200	-.02506	.05379	439.29000	.00000	.00000	657.43[illegible]	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
5.054	-52.713	200.18000	54.74800	-.01471	.04844	449.10000	.00000	.00000	672.11000	.00000	.00000
4.985	14.528	200.08000	53.87600	-.01498	.04739	449.11000	.00000	.00000	672.14000	.00000	.00000
4.952	50.155	200.03000	54.71000	-.01400	.05212	449.10000	.00000	.00000	672.11000	.00000	.00000
4.940	100.680	199.97000	53.93000	-.01339	.05231	448.37000	.00000	.00000	671.93000	.00000	.00000
4.972	200.180	200.07000	53.55000	-.01842	.04409	449.30000	.00000	.00000	671.69000	.00000	.00000
4.999	299.490	200.03000	53.50500	-.02781	.02597	448.57000	.00000	.00000	671.47000	.00000	.00000
4.993	399.390	200.13000	53.88400	-.03910	.00003	447.31000	.00000	.00000	670.18000	.00000	.00000
4.988	479.390	200.02000	53.99000	-.01019	.06032	447.78000	.00000	.00000	670.14000	.00000	.00000
	GRADIENT	13.77203	3.70843	-.00103	.00326	30.31341	.00000	.00000	46.26514	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2427/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.979	317.080	978.24000	978.24000	80.00000	978.24000	377.75000	65.00000	73.00000	12.68900	99.76800
-9.983	342.150	978.80000	978.80000	80.00000	978.80000	377.75000	65.00000	73.00000	6.24850	99.76800
-10.003	391.930	978.80000	978.80000	80.00000	978.80000	377.75000	65.00000	73.00000	2.17700	99.76800
-10.019	442.070	978.98000	978.98000	80.00000	978.98000	377.75000	65.00000	73.00000	.04091	99.76800
-10.025	492.450	978.54000	978.54000	80.00000	978.54000	377.75000	65.00000	73.00000	-.81632	99.76800
-9.995	591.340	978.14000	978.14000	80.00000	978.14000	377.75000	65.00000	73.00000	-1.91550	99.76800
-9.972	691.210	978.26000	978.26000	80.00000	978.26000	377.75000	65.00000	73.00000	-2.20460	99.76800
-10.006	791.600	977.83000	977.83000	80.00000	977.83000	377.75000	65.00000	73.00000	-.55681	99.76800
-10.003	991.480	977.95000	977.93000	80.00000	977.95000	377.75000	65.00000	73.00000	1.78330	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK058) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	3.000	X =	200.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2433/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.030	167.220	974.60000	974.60000	79.00000	974.60000	976.73000	64.00000	73.00000	1.82140	99.76800
-5.018	192.220	975.31000	975.31000	79.00000	975.31000	976.73000	64.00000	73.00000	1.79300	99.76800
-5.027	242.260	976.00000	976.00000	79.00000	976.00000	976.73000	64.00000	73.00000	.25582	99.76800
-5.041	292.510	976.73000	976.73000	79.00000	976.73000	976.73000	64.00000	73.00000	-1.07780	99.76800
-5.026	392.300	977.33000	977.33000	79.00000	977.33000	976.73000	64.00000	73.00000	-1.62770	99.76800
-4.976	491.410	977.47000	977.47000	79.00000	977.47000	976.73000	64.00000	73.00000	-3.04770	99.76800
-4.991	591.310	977.45000	977.45000	79.00000	977.45000	976.73000	64.00000	73.00000	-4.26320	99.76800
-5.008	691.500	977.40000	977.40000	79.00000	977.40000	976.73000	64.00000	73.00000	-3.74900	99.76800
-5.012	791.420	977.40000	977.40000	79.00000	977.40000	976.73000	64.00000	73.00000	-2.77410	99.76800
-5.010	991.320	976.94000	976.94000	79.00000	976.94000	976.73000	64.00000	73.00000	-1.62870	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.019	18.645	982.00000	982.00000	79.00000	982.00000	974.83000	64.00000	72.00000	-2.53540	99.76800
-.023	49.825	981.41000	981.41000	79.00000	981.41000	974.83000	64.00000	72.00000	-1.53730	99.76800
-.036	100.230	980.82000	980.82000	79.00000	980.82000	974.83000	64.00000	72.00000	-.50799	99.76800
-.030	150.370	979.48000	979.48000	79.00000	979.48000	974.83000	64.00000	72.00000	.05732	99.76800
-.041	200.590	978.54000	978.54000	79.00000	978.54000	974.83000	64.00000	72.00000	.69543	99.76800
-.028	300.250	976.30000	976.30000	79.00000	976.30000	974.83000	64.00000	72.00000	1.66720	99.76800
.016	398.440	975.51000	975.51000	79.00000	975.51000	974.83000	64.00000	72.00000	.85355	99.76800
-.001	499.400	975.08000	975.08000	79.00000	975.08000	974.83000	64.00000	72.00000	-2.06340	99.76800
-.005	599.410	975.08000	975.08000	79.00000	975.08000	974.83000	64.00000	72.00000	-3.59210	99.76800
-.010	799.330	975.08000	975.08000	79.00000	975.08000	974.83000	64.00000	72.00000	-1.46990	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
5.054	-52.713	976.51000	976.51000	79.00000	976.51000	976.39889	64.00000	72.00000	-1.74630	99.89400
4.985	14.528	976.55000	976.55000	79.00000	976.55000	976.39889	64.00000	72.00000	-.30669	99.89400
4.952	50.155	976.51000	976.51000	79.00000	976.51000	976.39889	64.00000	72.00000	.94827	99.89400
4.940	100.090	976.74000	976.74000	79.00000	976.74000	976.39889	64.00000	72.00000	2.02220	99.89400
4.972	200.180	976.63000	976.63000	79.00000	976.63000	976.39889	64.00000	72.00000	2.79300	99.89400
4.999	299.490	976.57000	976.57000	79.00000	976.57000	976.39889	64.00000	72.00000	2.98770	99.89400
4.993	399.390	976.63000	976.63000	79.00000	976.63000	976.39889	64.00000	72.00000	2.24200	99.89400
4.988	479.390	976.62000	976.62000	79.00000	976.62000	976.39889	64.00000	72.00000	1.25060	99.89400
	GRADIENT	67.21847	67.21847	5.43778	67.21847	67.20815	4.40529	4.95595	-.02111	6.87596

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2427/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.979	317.080	200.06000	53.96900	-4.95260	2.99510	- 22340	.03196	-.03679	-.00983	.00091	.11345
-9.983	342.150	200.11000	53.70200	-4.95330	2.99400	- 16529	.01687	-.03724	-.00909	.00049	.10494
-10.003	391.930	200.03000	53.[illegible]3000	-4.97330	2.99380	- 15032	.00524	-.03920	-.00600	.00051	.09770
-10.019	442.070	200.05000	54.27000	-4.[illegible]9200	3.00030	- 14365	.00700	-.03309	-.00774	.00050	.09763
-10.026	492.450	200.16000	54.17000	-4.99740	2.99210	-.14463	.01437	-.[illegible]3328	-.00321	.00044	.10211
-9.965	591.340	199.95000	54.13100	-4.94100	2.99780	- 14226	.02475	-.02992	-.01113	.00057	.11550
-9.972	691.210	199.[illegible]5000	54.15200	-4.94440	2.99300	- 09049	.00072	-.02[illegible]82	-.01103	.00028	.10211
-10.006	791.600	200.00000	54.19300	-4.97630	2.99350	- 06251	-.01592	-.02959	-.01050	.00031	.09040
-10.003	991.480	200.11000	54.05900	-4.97280	2.99360	- 06298	-.01525	-.02982	- 01032	.00031	.09157
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2433/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.030	167.220	199.95000	53.70400	.01878	2.99050	- 12277	.00570	-.03382	-.00952	.00086	.09466
-5.018	192.220	200.10000	54.25300	.02616	3.00100	-.12040	.01139	-.03137	-.00909	.00070	.09806
-5.027	242.260	200.05000	54.18200	.01248	2.99760	- 09566	.00943	-.03297	-.00820	.00048	.09066
-5.041	292.510	200.05000	54.35300	-.00427	2.99350	- 08456	.01465	-.03400	-.00805	.00049	.09263
-5.026	392.300	200.07000	54.04000	.00693	2.99010	- 07822	.02483	-.03190	-.00804	.00045	.09859
-4.976	491.410	199.97000	53.[illegible]0000	.05132	2.99310	- 06578	.03185	-.02737	-.01200	.00032	.10974
-4.991	591.310	200.10000	54.13300	.03572	3.00090	- 02338	.01062	-.02771	-.01199	.00022	.09567
-5.008	691.500	200.05000	54.10300	.02125	2.[illegible]9370	- 00[illegible]5	.00082	-.02[illegible]76	-.01093	.00024	.08913
-5.012	791.420	200.10000	54.[illegible]5000	.01220	3.00090	- 00335	.00097	-.02023	-.01069	.00024	.08777
-5.010	991.390	200.02000	54.17600	.02030	2.99020	- 00[illegible]8	.00095	-.02830	-.01059	.00023	.08943
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2439/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.019	18.645	200.10000	53.47400	5.05730	2.[illegible]9200	00272	.00115	-.04714	-.01083	.00051	.08566
-.023	49.825	200.04000	54.33500	5.02430	3.00600	- 02825	.00073	-.04310	-.01021	.00056	.08846
-.036	100.230	200.11000	54.10200	5.01200	3.00230	- 03028	.00657	-.03213	-.00904	.00053	.08550
-.030	150.370	200.03000	54.09900	5.01470	2.99390	- 02801	.01552	-.03200	-.00708	.00045	.08544
-.041	200.590	200.03000	53.82500	5.00010	2.[illegible]9320	- 02355	.02490	-.03105	-.00764	.00041	.08743
-.028	300.260	200.[illegible]2000	53.[illegible]2300	5.[illegible]0230	2.99010	- 01225	.03767	-.02716	-.01054	.00034	.09538
.016	399.440	200.01000	53.71700	5.04230	2.99340	00752	.03979	-.02547	-.01297	.00012	.10237
-.001	499.400	200.16000	54.11000	5.03440	2.[illegible]9230	04168	.02224	-.02755	-.01249	.00019	.08392
-.005	599.410	200.[illegible]2000	53.[illegible]5600	5.02330	2.99770	04[illegible]6	.01836	-.03031	-.01132	.00024	.08916
-.010	799 330	199.94000	54.17200	5.01950	2.99220	04935	.01830	-.02[illegible]58	-.01071	.00023	.08901
	GRADIENT	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK058) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.054	-52.713	200.18000	54.74600	10.07200	3.01780	.08955	.02482	-.04259	-.01290	.00047	.08438
4.995	14.528	200.09000	53.87600	10.02700	2.99300	.04239	.01402	-.04214	-.00546	.00051	.08611
4.952	50.155	200.03000	54.71000	9.99020	3.00320	.03348	.01923	-.03418	-.00602	.00048	.08370
4.940	100.690	199.97000	53.93900	9.99470	2.99330	.03212	.03171	-.02354	-.00652	.00048	.08592
4.972	200.180	200.07000	53.55300	10.01000	2.99450	.04942	.04733	-.02549	-.01168	.00025	.09225
4.999	299.490	200.03000	53.60500	10.03200	2.99400	.07173	.06054	-.02472	-.01437	-.00002	.09955
4.993	399.390	200.13000	53.63400	10.02100	2.99310	.10302	.03053	-.03128	-.01231	.00020	.09197
4.988	479.390	200.02000	53.99000	10.01500	2.99300	.11320	.03443	-.03427	-.01135	.00031	.09099
	GRADIENT	13.77203	3.70543	.69918	.20675	.00293	.00097	-.00290	-.00058	.00003	.00593

V418-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK059) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2418/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-9.981	317.120	200.00000	53.69000	2.99370	.52845	- .00246	-.01137	.00033	-.00212	-.01601	.23489
-9.935	342.140	200.11000	54.24400	3.00120	.48018	.00025	-.01189	.00054	-.00192	-.01516	.23435
-10.008	391.940	199.99000	54.02900	2.99730	.41945	.00854	-.01085	.00020	-.00110	-.01447	.23485
-10.019	442.140	200.03000	54.28000	2.99350	.39435	.00843	-.00935	-.00021	-.00017	-.01462	.23437
-10.032	492.420	200.15000	53.91900	2.99350	.38431	.00769	-.00879	-.00037	-.00003	-.01431	.23434
-9.981	591.360	199.95000	54.38300	3.00140	.35553	.00421	-.00909	-.00045	.00065	-.01629	.23450
-9.970	691.200	199.97000	54.07000	2.99310	.30467	.01070	-.00904	-.00047	-.00047	-.01912	.23575
-9.998	791.600	200.03000	54.09000	2.99720	.29782	.01330	-.00948	-.00038	-.00022	-.01713	.23539
-10.094	994.750	199.27000	55.32200	3.04390	.29768	.01350	-.00936	-.00035	-.00022	-.01707	.23591
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK059) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1069.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2418/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	DBETA	BETA	CN	CLM	CA	CY	CYN	CBL
-9.991	317.120	5.00220	-.00100	2.99370	.19381	.00847	.02766	-.00400	-.00061	-.00208
-9.985	342.140	5.00340	-.00130	3.00120	.14730	.01118	.02874	-.00452	-.00040	-.00188
-10.008	391.940	5.00330	-.00090	2.99730	.08847	.01748	.02844	-.00327	-.00074	-.00105
-10.019	442.140	5.00340	-.00040	2.99880	.05132	.01937	.02830	-.00183	-.00115	-.00013
-10.032	492.420	5.00280	-.00080	2.99550	.03043	.01806	.02872	-.00139	-.00132	.00002
-9.991	591.330	5.00430	-.00010	3.00140	.02221	.01516	.02735	-.00171	-.00139	.00029
-9.970	691.200	5.00720	-.00010	2.99310	-.02183	.02106	.02907	-.00165	-.00141	-.00042
-9.988	791.600	5.00000	-.00010	2.99720	-.03882	.02426	.02883	-.00209	-.00132	-.00018
-10.094	994.750	5.00280	-.00080	3.04330	-.03003	.02449	.02702	-.00195	-.00130	-.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK059) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2418/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-9.981	317.120	200.00000	53.69000	-.01276	-.16829	440.31000	.00000	.00000	659.57000	.00000	.00000
-9.985	342.140	200.11000	54.24400	.00337	-.09342	440.64000	.00000	.00000	659.45000	.00000	.00000
-10.008	391.940	199.92000	54.02900	.03955	-.03322	440.76000	.00000	.00000	659.63000	.00000	.00000
-10.019	442.140	200.03000	54.20800	.00656	-.07373	440.83000	.00000	.00000	659.73000	.00000	.00000
-10.032	492.420	200.15000	53.91900	.01933	-.04424	441.92000	.00000	.00000	661.42000	.00000	.00000
-9.991	591.330	199.97000	54.30300	-.00429	-.07149	441.22000	.00000	.00000	660.33000	.00000	.00000
-9.970	691.200	199.97000	54.07000	.01675	-.02331	441.53000	.00000	.00000	660.83000	.00000	.00000
-9.988	791.600	200.03000	54.00000	.02097	-.01033	441.72000	.00000	.00000	661.15000	.00000	.00000
-10.094	994.750	199.27000	55.35000	.02204	-.03020	442.23000	.00000	.00000	662.37000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.06300	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK059) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2418/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-9.981	317.120	977.86000	977.86000	78.00000	977.86000	980.24000	64.00000	72.00000	14.74700	99.76800
-9.985	342.140	978.09000	978.09000	78.00000	978.09000	980.24000	64.00000	72.00000	7.64330	99.76800
-10.008	391.940	978.36000	978.36000	78.00000	978.36000	980.24000	64.00000	72.00000	3.32020	99.76800
-10.019	442.140	978.51000	978.51000	78.00000	978.51000	980.24000	64.00000	72.00000	.82815	99.76800
-10.032	492.420	979.09000	979.09000	78.00000	979.09000	980.24000	64.00000	72.00000	-.45331	99.76800
-9.961	591.360	979.36000	979.36000	78.00000	979.36000	980.24000	64.00000	72.00000	-2.20040	99.76800
-9.970	691.200	980.19000	980.19000	78.00000	980.19000	980.24000	64.00000	72.00000	-3.21460	99.76800
-9.998	791.600	980.62000	980.62000	78.00000	980.62000	980.24000	64.00000	72.00000	-2.26410	99.76800
-10.094	894.750	980.46000	980.46000	78.00000	980.46000	980.24000	64.00000	72.00000	-1.33930	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK059) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	200.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2418/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.981	317.120	200.00000	53.89000	-4.95440	2.99570	-.22319	.03231	-.03694	-.00989	.00092	.11378
-9.985	342.140	200.11000	54.24400	-4.95970	2.99390	-.18560	.01710	-.03736	-.00915	.00049	.10470
-10.008	391.940	199.98000	54.02900	-4.97650	2.99340	-.15089	.00517	-.03908	-.00811	.00051	.09723
-10.019	442.140	200.03000	54.20300	-4.98630	2.99310	-.14375	.00712	-.03897	-.00794	.00052	.09651
-10.032	492.420	200.15000	53.91900	-5.00340	2.99250	-.14402	.01469	-.03676	-.00819	.00044	.10127
-9.961	591.360	199.93000	54.33500	-4.93350	3.00130	-.14212	.02480	-.03042	-.01123	.00057	.11585
-9.970	691.200	199.97000	54.07000	-4.94250	2.99800	-.09042	.00095	-.02944	-.01112	.00029	.10278
-9.998	791.600	200.03000	54.02000	-4.95250	2.99710	-.06246	-.01582	-.02591	-.01052	.00030	.09069
-10.094	894.750	199.27000	55.33800	-5.06440	3.04330	-.06304	-.01525	-.03007	-.01042	.00031	.09234
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2428/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-10.023	317.590	400.21000	53.76500	2.99210	.47472	.00220	-.00890	-.00005	-.00010	-.01880	.23440
-9.990	341.450	400.01000	53.52600	2.99350	.45574	.00014	-.00850	-.00022	-.00027	-.01911	.23402
-10.040	391.840	400.09000	54.05300	2.99740	.40554	.00529	-.00836	-.00030	-.00015	-.01746	.23452
-9.998	441.360	400.01000	54.04000	3.00070	.35906	.00507	-.00808	-.00026	-.00001	-.01713	.23417
-9.984	491.100	399.92000	53.94800	2.99850	.37305	.00384	-.00821	-.00034	.00043	-.01743	.23417
-9.967	590.850	399.83000	54.02800	2.99820	.31720	.00879	-.00822	-.00039	.00043	-.02084	.23359
-9.997	691.230	399.93000	54.10200	3.00230	.30322	.01241	-.00912	-.00029	-.00025	-.01949	.23494
-10.046	792.050	400.10300	54.05000	2.99340	.29974	.01363	-.00914	-.00029	-.00024	-.01862	.23469
-10.002	991.420	400.14000	53.78200	2.99320	.29589	.01365	-.00934	-.00028	-.00024	-.01864	.23435
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
-5.021	166.970	400.09000	54.06200	2.99400	.41721	.02530	-.01040	.00026	-.00176	-.01082	.23360
-4.990	191.150	399.99000	53.82200	2.99340	.41165	.02166	-.01022	.00030	-.00130	-.01186	.23291
-4.990	240.740	399.94000	53.73000	2.99340	.39884	.01474	-.00933	.00015	-.00013	-.01218	.23286
-5.009	291.250	400.10000	53.83400	2.99510	.37493	.01310	-.00933	-.00023	-.00047	-.01393	.23264
-4.974	390.610	400.00000	54.13200	3.00000	.33059	.00816	-.00809	-.00031	-.00014	-.01455	.23218
-4.975	490.730	399.93000	53.74400	2.99320	.33482	.00609	-.00823	-.00041	.00050	-.01787	.23321
-5.000	591.280	400.02000	54.07600	3.00070	.30380	.01117	-.00889	-.00038	-.00034	-.01916	.23252
-5.036	691.840	400.03000	54.01000	2.99420	.29324	.01351	-.00905	-.00034	-.00024	-.01729	.23261
-5.007	791.370	400.13000	53.65300	2.99000	.29745	.01355	-.00945	-.00033	-.00024	-.01774	.23690
-5.009	991.400	400.15[illegible]	54.12600	2.99340	.29726	.01359	-.00935	-.00033	-.00024	-.01769	.23386
	GRADIENT	.[illegible]	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2440/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
.005	19.598	400.12000	53.82600	2.99400	.37071	.04202	-.01075	.00115	-.00185	-.00522	.23382
.023	48.736	400.08000	53.78800	2.99340	.37266	.03792	-.00926	.00039	-.00174	-.00700	.23358
.042	98.332	400.01000	53.83300	2.99330	.37799	.02310	-.01095	.00018	-.00169	-.01041	.23399
.013	148.790	400.10000	53.78500	2.99510	.36385	.02036	-.01055	.00013	-.00078	-.01322	.23389
-.000	199.060	400.03000	53.82400	2.99330	.34892	.01789	-.01007	-.00008	-.00051	-.01464	.23484
.033	298.440	400.10000	53.74200	2.99300	.35573	.01180	-.00943	-.00031	-.00030	-.01437	.23492
.026	398.490	400.17000	54.00700	3.00230	.34407	.00820	-.00941	-.00040	.00029	-.01657	.23449
-.019	499.320	400.07000	53.65000	2.99750	.29039	.01100	-.00943	-.00041	-.00030	-.01937	.23529
-.029	599.630	400.11000	53.67300	2.99000	.29366	.01321	-.00934	-.00034	-.00021	-.01728	.23353
-.006	799.180	400.14000	53.59200	2.98970	.29277	.01337	-.00935	-.00034	-.00021	-.01714	.23452
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALP =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2446/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.987	-50.492	400.17000	54.15000	2.99360	.33308	.03135	-.01196	.00159	-.00149	-.00250	.23418
5.007	13.977	400.10000	53.58900	2.99370	.35525	.03250	-.01136	.00054	-.00174	-.00900	.23424
5.009	48.943	400.08000	53.97200	2.99330	.35995	.02756	-.01164	.00021	-.00165	-.01237	.23418
5.007	98.605	400.04000	53.93200	2.99160	.34121	.02256	-.01151	-.00002	-.00108	-.01525	.23459
5.029	198.240	400.23000	53.60100	2.99080	.34532	.01714	-.01016	-.00031	-.00093	-.01522	.23395
5.026	298.440	400.03000	53.99300	3.00150	.35122	.00993	-.01007	-.00036	-.00037	-.01671	.23404
4.989	398.050	400.00000	53.80000	2.99330	.32782	.00973	-.01001	-.00041	.00010	-.01953	.23418
4.981	479.330	400.01000	53.94500	2.99100	.30793	.01183	-.00986	-.00043	-.00043	-.02025	.23401
	GRADIENT	28.62560	3.83408	.21462	.02842	.00233	-.00081	.00004	-.00012	-.00064	.01676

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2428/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.023	317.590	5.02790	-.00060	2.99210	.14011	.01319	.02533	-.00148	-.00099	-.00006
-9.980	341.450	5.02510	-.00050	2.99350	.12200	.01114	.02504	-.00108	-.00116	-.00022
-10.040	391.840	5.02750	-.00030	2.99740	.07063	.01629	.02671	-.00124	-.00125	-.00010
-9.998	441.360	5.02340	-.00040	3.00070	.05379	.01609	.02709	-.00165	-.00120	.00003
-9.984	491.100	5.02450	-.00030	2.99330	.03732	.01487	.02655	-.00177	-.00128	.00047
-9.987	590.630	5.02340	-.00020	2.99220	-.01031	.01933	.02545	-.00178	-.00133	.00048
-9.997	691.230	5.02900	-.00030	3.00230	-.03231	.02344	.02476	-.00168	-.00124	-.00021
-10.046	792.050	5.03020	-.00020	2.99340	-.03322	.02466	.02605	-.00170	-.00124	-.00019
-10.002	931.420	5.03010	-.00030	2.99220	-.03347	.02468	.02606	-.00189	-.00122	-.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.021	166.970	5.04594	-.00070	2.99400	.08441	.03623	.03307	-.00303	-.00067	-.00172
-4.990	191.150	5.04239	-.00070	2.99340	.07901	.03269	.03202	-.00285	-.00064	-.00126
-4.980	240.740	5.03639	-.00070	2.99340	.06701	.02667	.03172	-.00251	-.00079	-.00009
-5.009	291.250	5.03397	-.00030	2.99310	.04241	.02402	.02991	-.00126	-.00117	-.00042
-4.974	390.610	5.02820	-.00030	3.00090	.03541	.01907	.02825	-.00172	-.00125	-.00010
-4.975	490.730	5.02486	-.00020	2.99820	.00297	.01700	.02590	-.00187	-.00135	.00065
-5.000	531.290	5.02799	-.00020	3.00070	-.02805	.02208	.02460	-.00164	-.00132	-.00029
-5.036	691.840	5.03977	-.00020	2.99420	-.03541	.02441	.02645	-.00170	-.00127	-.00019
-5.007	791.370	5.02833	-.00020	2.99000	-.03588	.02451	.02823	-.00206	-.00127	-.00019
-5.009	891.400	5.02822	-.00020	2.99340	-.03310	.02454	.02827	-.00197	-.00127	-.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2440/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.005	19.599	5.03954	-.00140	2.99400	.04076	.05286	.03830	-.00344	.00022	-.00181
.023	48.736	5.05597	-.00120	2.99740	.04312	.04076	.03650	-.00255	-.00004	-.00170
.042	98.332	5.04730	-.00050	2.99330	.04816	.03034	.03309	-.00334	-.00075	-.00165
.013	148.780	5.03039	-.00060	2.99310	.03448	.03118	.03022	-.00335	-.00080	-.00073
-.000	199.080	5.03348	-.00040	2.99300	.01746	.02371	.02879	-.00278	-.00101	-.00047
.033	299.440	5.03151	-.00020	2.99300	.02632	.02272	.02807	-.00213	-.00124	-.00025
.026	398.480	5.02890	-.00020	3.00230	.01474	.01702	.02677	-.00211	-.00133	.00033
-.019	499.320	5.02805	-.00010	2.99750	-.02638	.02180	.02395	-.00215	-.00134	-.00026
-.029	599.630	5.02897	-.00010	2.99000	-.03455	.02389	.02600	-.00207	-.00126	-.00017
-.006	799.180	5.03002	-.00020	2.99370	-.03499	.02414	.02608	-.00208	-.00126	-.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2446/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.987	-50.492	5.04680	-.00200	2.99360	-.00616	.04250	.04224	-.00444	.00062	-.00144
5.007	13.977	5.04900	-.00090	2.99970	.01583	.04385	.03577	-.00384	-.00041	-.00170
5.009	48.943	5.04420	-.00050	2.99360	.02018	.03872	.03243	-.00411	-.00074	-.00160
5.007	98.606	5.03820	-.00040	2.99180	.00144	.03373	.02956	-.00388	-.00098	-.00104
5.023	198.240	5.03480	-.00010	2.99060	.00639	.02331	.02851	-.00363	-.00127	-.00059
5.026	299.440	5.02830	-.00020	3.00150	.01604	.02116	.02816	-.00253	-.00132	-.00033
4.999	398.050	5.03370	-.00020	2.99280	-.01285	.01991	.02833	-.00247	-.00137	.00015
4.981	479.330	5.02890	-.00010	2.99100	-.03112	.02297	.02448	-.00215	-.00139	-.00038
	GRADIENT	.36124	-.00006	.21462	.00113	.00312	.00256	-.00027	-.00003	-.00012

V41B-D9A (IA22),ORBITER(04RC) W/ET SEPARATING (TVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2428/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.023	317.590	400.21000	53.76500	.01539	-.10214	44?.92000	.00000	.00000	662.87000	.00000	.00000
-9.980	341.450	400.01000	53.53300	.01127	-.11762	44?.10000	.00000	.00000	663.14000	.00000	.00000
-10.040	391.840	400.09000	54.05300	.08403	-.01647	44?.32000	.00000	.00000	663.47000	.00000	.00000
-9.998	441.360	400.01000	54.04000	.01761	-.08528	44?.80000	.00000	.00000	664.18000	.00000	.00000
-9.934	491.100	399.92000	53.94600	.00886	-.09403	44?.39000	.00000	.00000	665.07000	.00000	.00000
-9.967	590.850	399.83000	54.02300	.05533	-.01163	44?.51000	.00000	.00000	665.25000	.00000	.00000
-9.997	691.230	399.93000	54.18000	.03314	-.04342	44?.14000	.00000	.00000	664.70000	.00000	.00000
-10.045	792.030	400.10000	54.05300	.03005	-.03728	44?.32000	.00000	.00000	664.97000	.00000	.00000
-10.002	891.420	400.14000	53.78200	.03285	-.03090	44?.55000	.00000	.00000	665.32000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-5.021	165.970	400.09000	54.06900	.02394	-.00224	44?.53000	.00000	.00000	659.30000	.00000	.00000
-4.980	191.150	399.93000	53.92200	.01222	-.02236	44?.31000	.00000	.00000	659.97000	.00000	.00000
-4.980	240.740	399.94000	53.73000	.00422	-.04363	44?.65000	.00000	.00000	659.34000	.00000	.00000
-5.009	291.250	400.10000	53.83400	.01159	-.03725	44?.02000	.00000	.00000	658.53000	.00000	.00000
-4.974	390.610	400.05000	54.13200	.00257	-.05375	43?.70000	.00000	.00000	658.04000	.00000	.00000
-4.975	490.730	399.93000	53.74400	.01731	-.04022	43?.40000	.00000	.00000	657.60000	.00000	.00000
-5.000	591.290	400.02000	54.07600	.02323	-.02305	43?.27000	.00000	.00000	657.40000	.00000	.00000
-5.036	691.640	400.05000	54.01000	.02292	-.01658	43?.00000	.00000	.00000	657.01000	.00000	.00000
-5.007	791.370	400.13000	53.93300	.02109	-.01615	44?.37000	.00000	.00000	660.55000	.00000	.00000
-5.009	991.400	400.15000	54.12000	.01912	-.01430	44?.27000	.00000	.00000	660.40000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2440/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.005	19.598	400.12000	53.82600	-.01795	.06505	43?.75000	.00000	.00000	653.64000	.00000	.00000
.023	48.736	400.08000	53.76900	-.02813	.04979	43?.61000	.00000	.00000	653.42000	.00000	.00000
.042	98.332	400.01000	53.68300	-.02807	.05214	43?.55000	.00000	.00000	653.40000	.00000	.00000
.013	148.790	400.10000	53.76500	-.04054	.02348	43?.32000	.00000	.00000	652.50000	.00000	.00000
-.000	193.060	400.00000	53.62400	-.02630	.04772	43?.03000	.00000	.00000	652.46000	.00000	.00000
.033	253.440	400.10000	53.74200	-.03769	.03805	43?.03000	.00000	.00000	652.56000	.00000	.00000
.026	303.490	400.17000	54.00700	-.04235	-.00335	43?.93000	.00000	.00000	652.41000	.00000	.00000
-.019	499.320	400.07000	53.85000	-.01693	.03820	43?.81000	.00000	.00000	650.73000	.00000	.00000
-.029	599.630	400.11000	53.67300	-.01784	.04248	43?.46000	.00000	.00000	650.20000	.00000	.00000
-.006	799.180	400.14000	53.59200	-.01995	.04243	43?.85000	.00000	.00000	649.29000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2446/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.987	-50.492	400.17000	54.15000	-.01800	.05070	443.05000	.00000	.00000	672.04000	.00000	.00000
5.007	13.977	400.10000	53.58900	-.01715	.05238	443.29000	.00000	.00000	672.40000	.00000	.00000
5.009	48.943	400.09000	53.97200	-.02425	.04201	443.63000	.00000	.00000	672.91000	.00000	.00000
5.007	98.606	400.04000	53.93200	-.02546	.04336	443.76000	.00000	.00000	673.10000	.00000	.00000
5.029	198.240	400.23000	53.60100	-.02388	.04441	443.93000	.00000	.00000	673.41000	.00000	.00000
5.026	298.440	400.00000	53.98000	-.04269	.00743	451.30000	.00000	.00000	673.91000	.00000	.00000
4.989	359.050	400.00000	53.80000	-.02218	.04125	451.23000	.00000	.00000	673.00000	.00000	.00000
4.981	479.330	400.01000	53.94500	-.02294	.04039	443.81000	.00000	.00000	671.60000	.00000	.00000
	GRADIENT	28.62560	3.83408	-.00123	.00373	32.14495	.00000	.00000	48.10761	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC.) W/ET SEPARATING (UVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2428/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.023	317.590	977.77000	977.77000	80.00000	977.77000	977.55000	64.00000	73.00000	18.59700	99.76800
-9.980	341.450	977.69000	977.69000	80.00000	977.69000	977.55000	64.00000	73.00000	19.11400	99.76800
-10.040	391.840	978.17000	978.17000	80.00000	978.17000	977.55000	64.00000	73.00000	17.00300	99.76800
-9.998	441.360	977.75000	977.75000	80.00000	977.75000	977.55000	64.00000	73.00000	13.51600	99.76800
-9.934	491.100	978.08000	978.05000	80.00000	978.08000	977.55000	64.00000	73.00000	12.02100	99.76800
-9.957	590.650	977.35000	977.35000	80.00000	977.35000	977.55000	64.00000	73.00000	10.29500	99.76800
-9.997	691.230	977.53000	977.53000	80.00000	977.53000	977.55000	64.00000	73.00000	6.47280	99.76800
-10.046	792.050	977.43000	977.43000	80.00000	977.43000	977.55000	64.00000	73.00000	3.47400	99.76800
-10.002	991.420	977.45000	977.45000	80.00000	977.45000	977.55000	64.00000	73.00000	.87206	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 06 MAY 77

TABULATED SOURCE DATA, IA22, (AEDC V41B-D9A)

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING

(UVK060) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	3.000	X =	400.000		
Y =	54.000	ELEVON =	.000		
UNELDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-5.021	166.970	972.80000	972.80000	80.00000	972.80000	972.78000	64.00000	73.00000	.04124	99.76800
-4.990	191.150	972.80000	972.80000	80.00000	972.80000	972.78000	64.00000	73.00000	-.56278	99.76900
-4.980	240.740	972.80000	972.80000	80.00000	972.80000	972.78000	64.00000	73.00000	-.13155	99.76800
-5.009	291.280	971.37000	971.37000	80.00000	971.37000	972.78000	64.00000	73.00000	1.70350	99.76800
-4.974	390.610	970.80000	970.80000	80.00000	970.80000	972.78000	64.00000	73.00000	2.72470	99.76800
-4.975	490.730	970.40000	970.40000	80.00000	970.40000	972.78000	64.00000	73.00000	4.32280	99.76800
-5.000	591.280	969.71000	969.71000	80.00000	969.71000	972.78000	64.00000	73.00000	4.74420	99.76800
-5.036	691.840	969.61000	969.61000	80.00000	969.61000	972.78000	64.00000	73.00000	3.09400	99.76800
-5.007	791.370	974.61000	974.61000	80.00000	97..61000	972.78000	64.00000	73.00000	1.05400	99.76800
-5.009	891.400	975.10000	975.10000	80.00000	975.10000	972.78000	64.00000	73.00000	-.94450	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2440/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.005	19.598	977.20000	977.20000	78.00000	977.20000	976.98000	64.00000	72.00000	-5.47950	99.76800
.023	48.736	977.38000	977.38000	78.00000	977.38000	976.98000	64.00000	72.00000	-6.00240	99.76800
.042	93.332	977.38000	977.38000	78.00000	977.38000	976.98000	64.00000	72.00000	-6.60300	99.76800
.013	148.700	976.98000	976.98000	78.00000	977.38000	976.98000	64.00000	72.00000	-6.87310	99.76800
-.000	198.030	977.38000	977.38000	78.00000	977.38000	976.98000	64.00000	72.00000	-5.57000	99.76800
.033	248.440	976.98000	976.98000	78.00000	976.98000	976.98000	64.00000	72.00000	-2.62710	99.76800
.026	298.490	973.74000	973.74000	78.00000	978.74000	976.98000	64.00000	72.00000	1.27220	99.76800
-.019	349.320	977.17000	977.17000	78.00000	977.17000	976.98000	64.00000	72.00000	3.04510	99.76800
-.029	399.630	976.98000	976.98000	78.00000	976.98000	976.98000	64.00000	72.00000	.63831	99.76800
-.006	750.180	977.41000	977.41000	78.00000	977.41000	976.98000	64.00000	72.00000	-2.62470	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2445/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.987	-50.492	976.41000	976.41000	79.00000	976.41000	976.20000	64.00000	72.00000	-4.50330	99.76800
5.007	13.977	976.43000	976.43000	79.00000	976.43000	976.20000	64.00000	72.00000	-5.21580	99.76800
5.009	48.943	976.60000	976.60000	79.00000	976.60000	976.20000	64.00000	72.00000	-5.91430	99.76800
5.007	93.603	976.40000	976.40000	79.00000	976.40000	976.20000	64.00000	72.00000	-6.20030	99.76800
5.028	193.240	976.40000	976.40000	79.00000	976.40000	976.20000	64.00000	72.00000	-5.71430	99.76800
5.035	293.440	976.60000	976.60000	79.00000	976.60000	976.20000	64.00000	72.00000	-4.60170	99.76800
4.989	393.020	976.60000	976.60000	79.00000	976.60000	976.20000	64.00000	72.00000	-2.40220	99.76800
4.981	479.330	976.87000	976.87000	79.00000	976.87000	976.20000	64.00000	72.00000	-.57734	99.76800
	GRADIENT	69.85977	69.85977	5.85214	69.85977	69.84331	4.57695	5.15132	-.37317	7.13801

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK060) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2428/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.023	317.590	400.21000	53.76500	-4.99510	2.98150	-.23224	.02273	-.04703	-.00465	.00087	.11634
-9.980	341.450	400.01000	53.53600	-4.95520	2.99300	-.22510	.02852	-.04434	-.00602	.00101	.12110
-10.040	391.840	400.09000	54.05300	-5.01250	2.99710	-.16124	.00079	-.04411	-.00633	.00055	.09523
-9.998	441.360	400.01600	54.04000	-4.97140	3.00030	-.14161	-.00219	-.04103	-.00799	.00053	.09446
-9.984	491.100	399.99300	53.94800	-4.99330	2.99320	-.14118	.00483	-.03823	-.00813	.00055	.09703
-9.967	590.650	399.60300	54.00200	-4.94010	2.99370	-.14517	.01931	-.03372	-.00938	.00048	.10969
-9.997	691.230	399.93000	54.10200	-4.99770	3.00200	-.12330	.01733	-.02840	-.01128	.00041	.11464
-10.046	792.050	400.10000	54.06300	-5.01930	2.99220	-.07034	-.01164	-.02037	-.01090	.00021	.09000
-10.002	991.420	400.14000	53.78200	-4.97190	2.99290	-.00661	-.01518	-.02971	-.01031	.00031	.09194
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2434/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.021	166.970	400.03000	54.06800	.02444	2.99330	-.13501	.00167	-.04699	-.00611	.00045	.10282
-4.990	191.150	399.99000	53.93200	.05279	2.99470	-.13148	.00704	-.04375	-.00631	.00035	.10333
-4.930	240.740	399.94000	53.73000	.05039	2.99270	-.11736	.01281	-.03977	-.00714	.00043	.10271
-5.009	291.250	400.10000	53.83400	.02426	2.99400	-.08232	.00492	-.03537	-.00758	.00048	.09032
-4.974	390.610	400.06000	54.13200	.05450	2.99370	-.07292	.01627	-.03574	-.00856	.00045	.09457
-4.975	490.730	399.95000	53.74400	.04946	2.99300	-.07049	.02824	-.03049	-.01037	.00044	.10611
-5.000	591.290	400.02000	54.07600	.02793	3.00050	-.04834	.02358	-.02778	-.01199	.00017	.10611
-5.036	691.840	400.05000	54.01000	-.00633	2.99400	-.00948	.00164	-.02831	-.01121	.00020	.08649
-5.007	791.370	400.13000	53.65300	.02338	2.99330	-.00693	.00084	-.02657	-.01062	.00025	.08797
-5.009	991.400	400.15000	54.12600	.02072	2.99320	-.00573	.00110	-.02827	-.01063	.00024	.08946
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2440/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.005	19.598	400.12000	53.82600	5.06410	2.99260	-.06612	-.01587	-.05007	-.00878	.00077	.09969
.023	48.736	400.08000	53.78900	5.07650	2.99320	-.06166	-.00460	-.05084	-.00613	.00048	.09943
.042	98.332	400.01000	53.69300	5.00370	2.99220	-.05121	.01257	-.04371	-.00763	.00024	.09782
.013	148.790	400.10000	53.78300	5.05330	2.99450	-.03997	.01620	-.03754	-.00838	.00031	.09302
-.000	199.060	400.06000	53.83400	5.05630	2.99340	-.01773	.01479	-.03446	-.00869	.00047	.08921
.033	298.440	400.10000	53.74200	5.05460	2.99280	-.01152	.02853	-.03105	-.00916	.00042	.09143
.026	398.490	400.17000	54.00700	5.05190	3.00210	-.00046	.03911	-.02808	-.01186	.00031	.10074
-.019	499.320	400.07000	53.85000	5.00910	2.99740	.02613	.02984	-.02625	-.01301	.00013	.09850
-.029	599.630	400.11000	53.67300	5.00040	2.99330	.04790	.01816	-.03034	-.01145	.00025	.08764
-.006	799.180	400.14000	53.59200	5.02370	2.98950	.04960	.01820	-.02934	-.01083	.00024	.08954
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1)

(AVK060) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2446/ 0 RN/L = .84 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.987	-50.492	400.17000	54.15000	10.03400	2.99160	.00697	.00507	-.05518	-.00499	.00031	.10493
5.007	13.977	400.10000	53.53900	10.05300	2.99390	.00495	.01775	-.04038	-.01041	.00032	.09434
5.009	48.943	400.03000	53.97200	10.05300	2.99310	.01415	.02149	-.03885	-.01091	.00033	.09001
5.007	83.605	400.04000	53.93200	10.04700	2.99140	.03257	.02466	-.03679	-.00952	.00038	.08683
5.026	298.440	400.23000	53.60100	10.05400	2.99050	.05031	.03339	-.02900	-.00595	.00047	.08750
4.989	399.050	400.00000	53.99300	10.05500	3.00130	.06316	.05018	-.02690	-.01239	.00015	.09769
4.981	479.330	400.01000	53.94500	10.01600	2.99330	.06950	.04373	-.02795	-.01400	.00002	.09306
	GRADIENT	28.62560	3.83408	10.01000	2.99090	.10341	.03609	-.03398	-.01169	.00028	.09152
				.71947	.21456	.00035	.00127	-.00291	-.00074	.00002	.00675

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING

(RVK061) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	3.000	X =	400.000
Y =	54.000	ELEVON =	.000
UMBLDR =	.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2419/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	KM
-10.025	317.640	400.17000	54.09600	2.99570	.47212	.00190	-.00852	-.00016	-.00003	-.01718	.23375
-9.981	341.500	399.99000	53.98200	2.99990	.45345	-.00013	-.00642	-.00033	-.00017	-.01748	.23388
-10.040	391.820	399.97000	54.00000	2.99350	.40203	.00508	-.00854	-.00028	-.00010	-.01556	.23409
-9.933	441.400	399.99000	54.14700	3.00100	.36354	.00481	-.00922	-.00030	.00003	-.01510	.23407
-9.934	491.160	399.99000	54.15300	2.99740	.35876	.00341	-.00921	-.00039	.00052	-.01519	.23422
-9.955	590.870	399.97000	53.95300	2.99330	.31220	.00848	-.00909	-.00044	.00048	-.01835	.23422
-10.001	691.200	400.03000	53.99200	2.99330	.29336	.01211	-.00920	-.00033	-.00024	-.01732	.23396
-10.050	792.040	400.20000	53.99100	2.99540	.28496	.01328	-.00918	-.00034	-.00021	-.01634	.23364
-10.005	991.470	400.06000	54.02100	2.99800	.29431	.01328	-.00933	-.00033	-.00021	-.01609	.23405
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK061) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	3.000	X =	400.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2419/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.025	317.640	5.02750	-.00050	2.99370	.14021	.01281	.02659	-.00127	-.00110	.00002
-9.981	341.500	5.02490	-.00040	2.99030	.12182	.01077	.02525	-.00107	-.00126	-.00012
-10.040	391.820	5.02750	-.00020	2.99050	.07068	.01597	.02814	-.00130	-.00131	-.00006
-9.998	441.400	5.02020	-.00030	3.00100	.05405	.01570	.02032	-.00187	-.00124	.00007
-9.984	491.160	5.02420	-.00020	2.99740	.03770	.01428	.02347	-.00187	-.00131	.00057
-9.965	590.870	5.02610	-.00010	2.99330	-.01854	.01935	.02499	-.00176	-.00138	.00063
-10.001	691.200	5.02030	-.00020	2.99350	-.03241	.02298	.02831	-.00187	-.00126	-.00020
-10.050	792.040	5.02330	-.00020	2.99340	-.03555	.02415	.02726	-.00186	-.00127	-.00017
-10.005	991.470	5.02930	-.00020	2.99300	-.03532	.02413	.02746	-.00202	-.00126	-.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK061) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	YMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	3.000	X =	400.000		
Y =	54.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2419/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.025	317.640	400.17000	54.09500	.01517	-.10659	433.36000	.00000	.00000	657.53000	.00000	.00000
-9.981	341.500	399.99000	53.99200	.01211	-.10248	433.99000	.00000	.00000	656.99000	.00000	.00000
-10.040	391.820	399.97000	54.00000	.05098	-.02943	433.64000	.00000	.00000	656.46000	.00000	.00000
-9.998	441.400	399.92000	54.14700	.01757	-.09082	433.60000	.00000	.00000	656.70000	.00000	.00000
-9.984	491.160	399.99000	54.15300	.01021	-.09927	433.23000	.00000	.00000	656.85000	.00000	.00000
-9.955	590.870	399.97000	53.99000	.05528	-.01720	437.93000	.00000	.00000	656.40000	.00000	.00000
-10.001	691.200	400.03000	53.99200	.03338	-.04851	437.84000	.00000	.00000	656.27000	.00000	.00000
-10.050	792.040	400.20000	53.99100	.03735	-.04253	437.62000	.00000	.00000	654.94000	.00000	.00000
-10.005	991.470	400.06000	54.02100	.03317	-.03644	437.12000	.00000	.00000	654.19000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (UVK061) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = 3.000 X = 400.000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2419/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.025	317.640	977.19000	977.19000	78.00000	977.19000	976.99999	64.00000	72.00000	21.40800	99.76800
-9.981	341.500	976.83000	976.83000	78.00000	976.83000	976.99999	64.00000	72.00000	21.49200	99.76800
-10.040	391.820	976.55000	976.55000	78.00000	976.55000	976.99999	64.00000	72.00000	19.28400	99.76800
-9.999	441.400	976.44000	976.44000	78.00000	976.44000	976.99999	64.00000	72.00000	15.64700	99.76800
-9.994	491.160	976.14000	976.14000	78.00000	976.14000	976.99999	64.00000	72.00000	14.18900	99.76800
-9.965	590.870	975.99000	975.99000	78.00000	975.99000	976.99999	64.00000	72.00000	12.33400	99.76800
-10.001	691.200	975.78000	975.78000	78.00000	975.78000	976.99999	64.00000	72.00000	8.31340	99.76800
-10.050	792.040	975.75000	975.75000	78.00000	975.75000	976.99999	64.00000	72.00000	5.17160	99.76800
-10.005	991.470	975.61000	975.61000	78.00000	975.61000	976.99999	64.00000	72.00000	2.44420	99.76800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK061) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = 3.000 X = 400.000
Y = 54.000 ELEVON = .000
UMBLDR = .000 RCS = 1.000
GAS = 1.000

RUN NO. 2419/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.025	317.640	400.17000	54.09600	-4.99750	2.99520	-.23267	.02304	-.04684	-.00472	.00088	.11738
-9.981	341.500	399.99000	53.99200	-4.99650	2.99940	-.22512	.02385	-.04490	-.00654	.00101	.12240
-10.040	391.820	399.97000	54.00000	-5.01250	2.99530	-.16060	.00092	-.04420	-.00674	.00055	.09715
-9.999	441.400	399.93000	54.14700	-4.97150	3.00070	-.14162	-.00196	-.04131	-.00805	.00054	.09428
-9.994	491.160	399.93000	54.15900	-4.99330	2.99720	-.14113	.00497	-.03957	-.00818	.00055	.09754
-9.965	590.870	399.97000	53.93000	-4.99200	2.99220	-.14472	.01935	-.03420	-.00953	.00050	.10962
-10.001	691.200	400.03000	53.99200	-4.97240	2.99130	-.12245	.01673	-.02914	-.01134	.00039	.11542
-10.050	792.040	400.20000	53.99100	-5.02020	2.99320	-.08934	-.01217	-.02322	-.01083	.00021	.09073
-10.005	991.470	400.08000	54.02100	-4.97570	2.99330	-.08253	-.01516	-.02968	-.01042	.00031	.09231
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK062) (20 APR 77)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1089.6000 IN.	XO
LREF	= 1290.3000 INCHES	YMRP	= .0000 IN.	YO
BREF	= 1290.3000 INCHES	ZMRP	= 375.0000 IN.	ZO
SCALE	= .0125			

PARAMETRIC DATA

ALPHA	= -5.000	BETA	= .000		
DBETA	= .000	X	= .000		
Y	= .000	ELEVON	= .000		
UMBLDR	= .000	RCS	= .000		
ZSWEEP	= 1.000	GAS	= 1.000		

RUN NO. 2350/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.999	317.010	-5.01530	-.00009	.00507	.21398	-.02791	.11334	-.00098	-.00023	.00242
-10.056	342.360	-5.02300	.00043	-.00155	.11745	-.03201	.10973	-.00162	-.00077	.00124
-10.003	391.870	-5.02900	.00023	.00330	.03755	-.03327	.09460	-.00247	-.00060	.00119
-9.998	441.800	-5.02970	.00016	.00065	-.02956	-.03084	.09067	-.00329	-.00051	.00045
-10.008	491.560	-5.02700	.00009	.00581	-.08523	-.02527	.09005	-.00377	-.00038	.00021
-10.022	591.890	-5.02100	.00021	.00209	-.13590	-.01577	.09398	-.00404	-.00038	.00012
-10.001	691.530	-5.02006	.00023	.00806	-.13992	-.01467	.09505	-.00390	-.00038	.00011
-9.994	791.640	-5.01990	.00023	.01257	-.13992	-.01466	.09512	-.00391	-.00039	.00011
-10.006	991.500	-5.02000	.00028	.00514	-.13970	-.01469	.09499	-.00393	-.00044	.00011
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK062) (04 MAY 77)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1328.7200 IN.	XT
LREF	= 1290.3000 INCHES	YMRP	= .0000 IN.	YT
BREF	= 1290.3000 INCHES	ZMRP	= 416.4000 IN.	ZT
SCALE	= .0125			

PARAMETRIC DATA

ALPHA	= -5.000	BETA	= .000		
DBETA	= .000	X	= .000		
Y	= .000	ELEVON	= .000		
UMBLDR	= .000	RCS	= .000		
ZSWEEP	= 1.000	GAS	= 1.000		

RUN NO. 2350/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.998	317.010	.04795	.31385	-15.01300	.00498	-.33730	.02153	.00959	-.00303	.00114	.13964
-10.056	342.360	.18228	.18292	-15.07900	-.00112	-.26248	-.01843	.00505	-.00010	.00035	.11465
-10.003	391.870	.01310	-.09266	-15.03200	.00352	-.24548	-.02575	.00491	-.00020	.00037	.11496
-9.996	441.800	-.06464	-.08245	-15.02600	.00081	-.24515	-.02453	.00432	.00006	.00035	.11516
-10.008	491.560	.01567	.14243	-15.03500	.00590	-.23767	-.02689	.00471	-.00034	.00043	.11755
-10.022	591.890	.00482	.13928	-15.04300	.00231	-.21848	-.03668	.00352	.00039	.00030	.10692
-10.001	691.530	.04480	.47468	-15.02100	.00828	-.21544	-.03737	.00317	.00045	.00031	.10728
-9.994	791.640	.09484	.68068	-15.01400	.01280	-.21612	-.03754	.00293	.00049	.00030	.10826
-10.006	991.500	.11238	.20418	-15.02600	.00542	-.21564	-.03794	.00300	.00055	.00030	.10747
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ORBITER(O4RC1) W/ET SEPARATING (SVK063) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
ZSWEEP =	2.000	GAS =	1.000

RUN NO. 2351/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.943	316.790	-5.01490	-.00010	.01193	.21282	-.02736	.11116	-.00109	-.00022	.00230
-9.996	342.200	-5.02340	.00039	.00680	.11347	-.03174	.10754	-.00212	-.00072	.00108
-10.003	392.350	-5.02900	.00025	.01345	.03719	-.03306	.09291	-.00260	-.00062	.00108
-9.995	442.160	-5.02970	.00014	-.00009	-.02959	-.03077	.08927	-.00356	-.00048	.00042
-9.976	491.420	-5.02660	.00009	.00713	-.08630	-.02507	.08900	-.00396	-.00038	.00020
-10.000	591.670	-5.02100	.00023	.00348	-.13566	-.01570	.09273	-.00399	-.00040	.00012
-10.001	691.570	-5.02000	.00026	.00552	-.13930	-.01464	.09391	-.00410	-.00041	.00011
-10.000	791.690	-5.02000	.00026	.00263	-.13969	-.01460	.09403	-.00380	-.00041	.00011
-10.001	991.390	-5.02000	.00026	.00676	-.13934	-.01463	.09402	-.00384	-.00041	.00011
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ET SEPARATING FROM ORB (O4RC1) (AVK063) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
ZSWEEP =	2.000	GAS =	1.000

RUN NO. 2351/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.943	316.790	-.13165	.30816	-14.95800	.01184	-.33592	.02179	.00968	-.00296	.00113	.14119
-9.996	342.200	.02450	.42103	-15.01900	.00719	-.25947	-.01898	.00520	-.00012	.00034	.11541
-10.003	392.350	.08197	.75751	-15.03200	.01370	-.24385	-.02604	.00452	-.00025	.00035	.11575
-9.995	442.160	-.02328	-.03656	-15.02500	.00005	-.24327	-.02447	.00477	.00012	.00034	.11594
-9.976	491.420	.04348	.21235	-15.00300	.00722	-.23581	-.02696	.00502	-.00039	.00041	.11695
-10.000	591.670	.13208	.08446	-15.02100	.00371	-.21627	-.03656	.00333	.00050	.00029	.10640
-10.001	691.570	.00192	.22533	-15.02100	.00578	-.21486	-.03749	.00317	.00051	.00030	.10714
-10.000	791.690	.07480	-.04361	-15.02000	.00289	-.21411	-.03725	.00299	.00050	.00030	.10703
-10.001	991.390	.18681	.35160	-15.02100	.00702	-.21368	-.03768	.00304	.00050	.00030	.10786
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK064) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2717/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.013	624.820	-5.02300	.00229	.00398	.24992	-.03841	.08165	-.00163	-.00253	.00340
-19.966	698.820	-5.03200	.00204	.00860	.21001	-.04549	.07422	-.00398	-.00236	.00295
-20.056	799.730	-5.03400	.00228	.00182	.01622	-.03793	.06824	-.00380	-.00253	.00146
-20.045	999.790	-5.02000	.00197	.00278	-.14588	-.01454	.07468	-.00557	-.00196	.00022
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2721/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.009	474.580	-5.03000	.00249	.00372	.18522	-.04330	.08562	-.00331	-.00279	.00293
-15.008	499.350	-5.03300	.00249	.00430	.15334	-.04546	.08314	-.00349	-.00282	.00240
-14.981	549.110	-5.03500	.00229	.00889	.11348	-.04487	.07646	-.00370	-.00263	.00171
-15.007	599.340	-5.03400	.00243	.00893	.04340	-.04060	.07111	-.00393	-.00273	.00144
-15.067	700.080	-5.02500	.00219	.00286	-.12080	-.02130	.07241	-.00542	-.00227	.00043
-15.024	799.700	-5.02000	.00219	.00496	-.14633	-.01456	.07713	-.00545	-.00219	.00024
-15.015	999.500	-5.02000	.00230	.00190	-.14626	-.01448	.07790	-.00529	-.00230	.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2725/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.000	324.570	-5.02110	.00250	.00736	.14571	-.03127	.09295	-.00438	-.00264	.00197
-10.038	349.670	-5.02500	.00261	-.00074	.09141	-.03304	.08348	-.00444	-.00278	.00167
-10.001	399.140	-5.03000	.00258	.00397	.02161	-.03479	.07322	-.00445	-.00278	.00095
-10.015	449.460	-5.02900	.00238	.00121	-.04897	-.03041	.07152	-.00494	-.00255	.00049
-10.019	499.440	-5.02700	.00246	.00446	-.10371	-.02380	.07161	-.00529	-.00255	.00037
-10.032	599.730	-5.02100	.00260	.00617	-.14576	-.01495	.07556	-.00502	-.00258	.00029
-10.011	699.480	-5.02000	.00249	.00153	-.14676	-.01448	.07711	-.00531	-.00247	.00027
-10.014	799.340	-5.01900	.00256	.00285	-.14701	-.01451	.07669	-.00508	-.00254	.00027
-10.015	999.360	-5.01900	.00263	.00317	-.14691	-.01439	.07634	-.00507	-.00260	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK064) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2729/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.567	202.740	-5.00790	.00276	-.00540	.08418	-.01299	.08573	-.00547	-.00265	.00078
-5.530	249.310	-5.01560	.00282	.00081	-.00028	-.01750	.07937	-.00486	-.00278	.00038
-5.514	299.290	-5.01870	.00288	.00231	-.03379	-.01931	.07744	-.00447	-.00287	.00031
-5.514	399.200	-5.02210	.00286	.00401	-.10665	-.01938	.07341	-.00473	-.00287	.00032
-5.525	499.460	-5.02050	.00259	.00111	-.14284	-.01571	.07462	-.00522	-.00258	.00030
-5.513	599.320	-5.01970	.00263	.00267	-.14746	-.01445	.07567	-.00515	-.00261	.00028
-5.513	699.360	-5.02020	.00264	.00578	-.14727	-.01438	.07573	-.00523	-.00260	.00028
-5.515	799.140	-5.01950	.00235	.00546	-.14742	-.01446	.07726	-.00557	-.00234	.00025
-5.516	819.200	-5.01940	.00264	.00634	-.14774	-.01439	.07585	-.00511	-.00261	.00029
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2382/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.051	25.693	-5.01224	.00045	-.00117	-.06894	-.00976	.09162	-.00602	-.00048	.00049
-.003	41.659	-5.01194	.00039	.00365	-.06823	-.00942	.09416	-.00643	-.00041	.00048
.000	91.559	-5.00798	.00038	.00439	-.05691	-.00558	.09599	-.00594	-.00037	.00010
.007	141.460	-5.00603	.00038	.00487	-.05623	-.00351	.08723	-.00573	-.00034	.00028
.009	191.360	-5.01003	.00020	.00095	-.05743	-.00790	.08963	-.00625	-.00023	.00013
.006	291.220	-5.01807	.00030	.00513	-.07971	-.01577	.08388	-.00626	-.00042	.00038
.001	391.430	-5.02043	.00029	.00105	-.11730	-.01648	.08245	-.00632	-.00042	.00016
-.000	491.380	-5.01855	.00030	.00188	-.13177	-.01369	.08308	-.00622	-.00040	.00014
.004	591.410	-5.01864	.00030	.00038	-.13192	-.01373	.08343	-.00643	-.00040	.00014
.001	791.330	-5.01869	.00031	.00286	-.13179	-.01373	.08353	-.00650	-.00041	.00014
-.000	931.300	-5.01857	.00032	.00017	-.13159	-.01373	.08364	-.00640	-.00042	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2385/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.010	-58.758	-5.02052	.00038	-.00004	-.11619	-.01662	.08391	-.00698	-.00050	.00028
5.004	6.531	-5.01540	.00028	-.00070	-.10722	-.01124	.09535	-.00722	-.00034	.00018
5.001	41.580	-5.01029	.00038	.00078	-.09510	-.00621	.09815	-.00692	-.00036	.00005
5.007	91.467	-5.00742	.00039	.00226	-.07644	-.00404	.09131	-.00595	-.00037	.00021
5.006	191.240	-5.01515	.00050	.00081	-.06869	-.01301	.09125	-.00558	-.00057	.00023
5.009	291.230	-5.02001	.00031	.00174	-.10640	-.01650	.08598	-.00625	-.00044	.00017
5.005	391.410	-5.01920	.00029	.00179	-.12891	-.01443	.08562	-.00642	-.00040	.00016
5.006	591.250	-5.01868	.00031	.00283	-.13161	-.01373	.08519	-.00644	-.00041	.00014
	GRADIENT	-.76794	.00004	-.00011	-.01642	-.00172	.01460	-.00111	-.00005	.00003

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RCI) (AVK064) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2717/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.013	624.820	-.20843	.22353	-25.03600	.00627	-.51126	-.01653	.02120	-.00073	.00070	.12848
-19.966	698.820	-.14812	.23530	-24.99800	.01064	-.54166	.00465	.02310	-.00225	.00086	.16680
-20.056	799.730	.24362	.15563	-25.09000	.00410	-.47830	-.02774	.01886	-.00045	.00022	.14068
-20.045	999.790	.16201	.07359	-25.06500	.00475	-.45603	-.03975	.01875	-.00030	.00040	.14144
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2721/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.009	474.580	.07504	.15715	-20.03900	.00621	-.36504	-.02534	.01308	.00085	.00010	.11594
-15.008	499.350	.04673	.09342	-20.04100	.00679	-.36173	-.02593	.01390	.00005	.00031	.12820
-14.981	549.110	-.09853	.33675	-20.01600	.01118	-.38753	-.00944	.01610	-.00122	.00044	.14536
-15.007	599.340	.09266	.59137	-20.04100	.01136	-.38218	-.00908	.01496	-.00136	.00029	.14597
-15.067	700.080	.27299	.28630	-20.09200	.00505	-.33273	-.03781	.01269	.00067	.00012	.12197
-15.024	799.700	.15757	.17662	-20.04400	.00715	-.32543	-.04162	.01249	.00056	.00017	.12216
-15.015	999.500	.25544	-.01384	-20.03500	.00420	-.32392	-.04251	.01249	.00079	.00016	.12155
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2725/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.000	324.570	-.02286	.36358	-15.02100	.00986	-.28444	-.00796	.01158	-.00026	-.00011	.12216
-10.038	349.670	.24699	-.05967	-15.06300	.00188	-.25327	-.02528	.01054	.00082	.00001	.11248
-10.001	399.140	.07765	.07379	-15.03100	.00654	-.25020	-.02372	.01106	.00001	.00010	.12127
-10.015	449.460	.07437	.03982	-15.04400	.00359	-.24479	-.02597	.00995	.00065	.00001	.11827
-10.019	499.440	.09372	.10650	-15.04600	.00692	-.23551	-.02839	.01054	.00014	.00008	.11663
-10.032	599.730	.14364	.43995	-15.05300	.00877	-.21878	-.03849	.00906	.00108	.00001	.10874
-10.011	699.480	.17412	-.06081	-15.03100	.00402	-.21786	-.03896	.00893	.00125	.00002	.11030
-10.014	799.340	.20419	.04591	-15.03300	.00541	-.21753	-.03895	.00898	.00122	.00001	.10991
-10.015	999.360	.14816	.07377	-15.03400	.00580	-.21770	-.03933	.00859	.00119	.00001	.10964
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK064) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2729/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.567	202.740	-1.19940	-.50641	-10.57500	-.00264	-.21825	.00178	.01124	-.00046	.00001	.12350
-5.530	249.310	.18065	-.03579	-10.54600	.00363	-.17161	-.01762	.01036	.00014	-.00008	.10873
-5.514	299.290	.18632	.03902	-10.53300	.00519	-.15967	-.02263	.00913	.00086	-.00010	.10513
-5.514	399.200	.16269	.09423	-10.53600	.00687	-.15189	-.02485	.00874	.00074	-.00011	.10678
-5.525	499.460	.15872	.07197	-10.54500	.00370	-.14030	-.03092	.00776	.00134	-.00018	.10110
-5.513	599.320	.18647	.06952	-10.53300	.00530	-.13985	-.03105	.00754	.00140	-.00017	.10152
-5.513	699.360	.23976	.28902	-10.53300	.00842	-.13962	-.03093	.00768	.00144	-.00018	.10147
-5.515	799.140	.20352	.24807	-10.53400	.00781	-.13885	-.03125	.00793	.00139	-.00018	.10223
-5.516	819.200	.37446	.30503	-10.53500	.00898	-.13849	-.03124	.00741	.00129	-.00018	.09971
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2382/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.051	25.693	-.60890	-.12092	-5.06310	-.00073	-.09010	-.01298	.00332	.00036	.00020	.09951
-.003	41.659	.11438	.13033	-5.01460	.00403	-.08678	-.01477	.00277	.00052	.00011	.09659
.000	91.559	.13708	.09029	-5.00750	.00477	-.08492	-.01293	.00303	.00023	.00004	.09911
.007	141.460	.10023	.15231	-4.99900	.00525	-.08438	-.00896	.00399	.00007	.00007	.09884
.009	191.360	.05951	-.08616	-5.00130	.00115	-.07791	-.00939	.00368	.00030	.00004	.09761
.006	291.220	.09360	.23331	-5.01170	.00543	-.06812	-.01274	.00332	.00039	.00002	.09447
.001	391.430	.11884	-.07496	-5.01920	.00134	-.06402	-.01526	.00304	.00058	-.00001	.09339
-.000	491.390	.13919	-.12567	-5.01900	.00218	-.06340	-.01516	.00304	.00052	-.00002	.09297
.004	591.410	.22354	-.15099	-5.01470	.00068	-.06220	-.01509	.00276	.00045	-.00002	.09364
.001	791.330	.14086	.06891	-5.01800	.00316	-.06310	-.01505	.00244	.00045	-.00002	.09475
-.000	931.300	.10378	-.12567	-5.01890	.00048	-.06373	-.01531	.00304	.00048	-.00002	.09359
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2385/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.010	-58.758	.26473	-.07851	-.01102	.00034	-.01479	-.00084	.00240	.00031	.00003	.09576
5.004	6.531	.14866	-.24905	-.01160	-.00042	-.01825	.00126	.00290	.00009	.00002	.09642
5.001	41.580	.11947	-.14115	-.00929	.00116	-.02149	.00284	.00314	.00008	-.00002	.09631
5.007	91.467	.14564	-.06888	-.00032	.00265	-.02267	.00663	.00359	-.00012	.00001	.09611
5.006	191.240	.25918	-.11000	-.00945	.00130	-.00987	.00216	.00331	.00005	-.00003	.09182
5.009	291.230	.20026	-.00584	-.01081	.00205	-.00741	.00114	.00318	.00026	-.00005	.09087
5.005	391.410	.24714	-.04935	-.01420	.00208	-.00735	.00082	.00281	.00021	-.00003	.09047
5.006	591.250	.14519	.06645	-.01298	.00314	-.00634	.00115	.00308	.00030	-.00003	.09114
	GRADIENT	.02276	-.03813	-.00178	-.00006	-.00279	.00019	.00044	.00001	.00000	.01476

V41B-D9A (IA22),ORBITER(04RCI) W/ET SEPARATING (SVK065) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2718/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.040	625.620	-5.04800	.00201	.00110	.17281	-.06195	.08111	-.00356	-.00257	.00363
-19.976	699.510	-5.04500	.00190	.00171	.10218	-.05587	.06131	-.00361	-.00240	.00227
-19.976	799.190	-5.03000	.00223	.00699	-.07637	-.02981	.06630	-.00533	-.00240	-.00021
-20.011	999.560	-5.02000	.00228	.00363	-.14663	-.01440	.07657	-.00521	-.00228	.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2722/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.000	474.710	-5.04400	.00225	.00200	.08702	-.05400	.07162	-.00382	-.00272	.00186
-15.011	499.810	-5.04300	.00221	.00469	.03628	-.05004	.06763	-.00426	-.00262	.00146
-15.013	549.620	-5.03900	.00228	.00167	-.04590	-.04083	.06581	-.00480	-.00259	.00073
-14.994	599.450	-5.03100	.00217	.00244	-.09953	-.02849	.06671	-.00562	-.00233	.00063
-14.991	699.440	-5.02100	.00233	.00355	-.14596	-.01475	.07402	-.00530	-.00234	.00026
-15.010	799.560	-5.02000	.00248	.00255	-.14715	-.01433	.07646	-.00509	-.00247	.00029
-15.011	999.520	-5.02000	.00239	.00444	-.14658	-.01442	.07740	-.00518	-.00238	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2726/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.982	324.350	-5.03410	.00253	.00959	.07914	-.04234	.07381	-.00411	-.00282	.00121
-10.014	349.770	-5.02900	.00244	.00044	.00951	-.03266	.07331	-.00473	-.00263	.00092
-10.013	399.630	-5.02600	.00262	.00501	-.05893	-.02597	.07043	-.00463	-.00273	.00063
-10.016	449.630	-5.02400	.00259	.00184	-.10764	-.02115	.07200	-.00506	-.00264	.00034
-10.005	499.470	-5.02300	.00256	.00293	-.13137	-.01821	.07296	-.00541	-.00258	.00031
-10.006	599.380	-5.01900	.00260	.00391	-.14726	-.01436	.07564	-.00513	-.00257	.00028
-10.013	699.510	-5.02000	.00256	.00360	-.14702	-.01438	.07650	-.00542	-.00253	.00027
-10.014	799.500	-5.02000	.00291	.00311	-.14750	-.01428	.07464	-.00457	-.00287	.00032
-10.014	999.390	-5.02000	.00278	.00273	-.14775	-.01435	.07575	-.00477	-.00275	.00030
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK065) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2730/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.509	199.720	-5.01700	.00354	-.00129	.01891	-.01964	.07455	-.00303	-.00350	.00092
-5.507	249.650	-5.01750	.00353	.01036	-.02643	-.01743	.07496	-.00358	-.00347	.00061
-5.520	299.910	-5.01910	.00350	.00265	-.06623	-.01820	.07189	-.00331	-.00347	.00061
-5.503	399.490	-5.02330	.00348	.00280	-.12455	-.01880	.07001	-.00370	-.00345	.00042
-5.511	499.430	-5.02000	.00305	.00268	-.14838	-.01429	.07306	-.00438	-.00300	.00034
-5.515	599.450	-5.02020	.00312	.00241	-.14812	-.01419	.07330	-.00433	-.00307	.00034
-5.511	699.360	-5.01960	.00308	.00271	-.14833	-.01422	.07364	-.00435	-.00303	.00034
-5.520	799.440	-5.02010	.00304	.00224	-.14766	-.01422	.07365	-.00451	-.00298	.00033
-5.517	819.320	-5.01970	.00301	-.00038	-.14823	-.01424	.07404	-.00454	-.00296	.00033
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2383/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.002	23.794	-5.00121	.00060	-.00177	-.04359	.00127	.09939	-.00599	-.00059	.00021
-.017	42.232	-4.99972	.00075	.00028	-.03032	.00224	.09645	-.00523	-.00062	.00031
-.012	92.041	-5.00377	.00033	.00534	-.04384	-.00166	.08772	-.00590	-.00027	.00033
-.003	141.800	-5.00819	.00020	.00838	-.05172	-.00608	.09097	-.00619	-.00020	.00014
-.010	191.950	-5.01379	.00053	-.00237	-.04751	-.01261	.09106	-.00569	-.00059	.00016
.008	291.590	-5.01966	.00027	.00278	-.09293	-.01684	.08434	-.00619	-.00041	.00020
.003	391.460	-5.01984	.00029	.00302	-.12480	-.01540	.08327	-.00648	-.00041	.00017
.002	491.530	-5.01868	.00029	.00278	-.13163	-.01372	.08409	-.00646	-.00039	.00014
.002	591.500	-5.01861	.00031	.00312	-.13134	-.01369	.08393	-.00641	-.00041	.00014
.001	791.410	-5.01858	.00032	.00369	-.13179	-.01370	.08393	-.00636	-.00042	.00014
.002	931.350	-5.01860	.00030	.00526	-.13170	-.01371	.08378	-.00642	-.00040	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2386/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.996	-58.605	-5.01408	.00041	-.00049	-.10552	-.00991	.09177	-.00702	-.00044	.00018
4.987	6.872	-5.00502	.00058	.00196	-.07068	-.00164	.09515	-.00572	-.00051	.00013
4.992	41.849	-5.00572	.00037	.00290	-.07482	-.00215	.09074	-.00615	-.00032	.00021
4.998	91.916	-5.00894	.00023	.00258	-.07011	-.00602	.09301	-.00604	-.00024	.00011
5.007	191.590	-5.01704	.00034	.00266	-.07852	-.01468	.08804	-.00617	-.00044	.00039
5.006	291.510	-5.02051	.00031	.00159	-.11525	-.01662	.08584	-.00628	-.00044	.00015
5.005	391.510	-5.01866	.00033	.00089	-.13161	-.01370	.08601	-.00640	-.00043	.00013
5.006	591.370	-5.01870	.00031	.00188	-.13183	-.01373	.08632	-.00647	-.00041	.00014
	GRADIENT	-.72834	.00008	.00029	-.01029	-.00024	.01385	-.00083	-.00007	.00002

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK065) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPH =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2718/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.040	625.620	200.20000	.12425	-25.08800	.00310	-.50954	-.02346	.01969	-.00000	.00066	.12053
-19.976	699.510	200.02000	.03160	-25.02100	.00361	-.53252	-.00468	.02210	-.00172	.00081	.15666
-19.976	799.190	200.03000	.06543	-25.00600	.00922	-.48143	-.02415	.02131	-.00234	.00062	.15019
-20.011	999.560	200.07000	.08577	-25.03100	.00591	-.45574	-.03990	.01849	-.00029	.00039	.13825
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2722/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.000	474.710	200.12000	.19552	-20.04400	.00425	-.37058	-.02640	.01195	.00144	.00020	.11588
-15.011	499.810	200.24000	.23342	-20.05400	.00690	-.35185	-.03325	.01296	.00037	.00016	.12368
-15.013	549.620	200.25000	.02448	-20.05200	.00396	-.34702	-.03304	.01325	.00030	.00011	.12458
-14.994	599.450	200.16000	.05416	-20.02500	.00461	-.35226	-.02775	.01346	.00006	.00011	.12929
-14.991	699.440	200.04000	-.02897	-20.01200	.00589	-.34322	-.03072	.01379	-.00037	.00014	.13415
-15.010	799.560	200.16000	.01882	-20.03000	.00504	-.32510	-.04134	.01227	.00057	.00014	.12254
-15.011	999.520	200.05000	.15537	-20.03100	.00684	-.32406	-.04211	.01213	.00055	.00016	.12272
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2726/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.982	324.350	200.09000	.45265	-15.01600	.01213	-.28043	-.01359	.01043	.00045	.00007	.12321
-10.014	349.770	200.10000	-.10062	-15.04300	.00288	-.25061	-.02993	.01032	.00106	.00008	.11019
-10.013	399.630	200.17000	.20637	-15.03900	.00763	-.24498	-.02916	.01008	.00052	.00001	.11503
-10.016	449.630	200.19000	-.00189	-15.04000	.00443	-.23771	-.03096	.01002	.00072	-.00002	.11473
-10.005	499.470	200.18000	.08991	-15.02800	.00549	-.23959	-.02786	.00970	.00073	-.00000	.11647
-10.006	599.380	200.11000	.07585	-15.02500	.00650	-.22639	-.03349	.00950	.00084	.00001	.11306
-10.013	699.510	200.18000	.09021	-15.03300	.00616	-.21773	-.03881	.00914	.00110	.00001	.11096
-10.014	799.500	200.18000	.07228	-15.03400	.00603	-.21766	-.03900	.00858	.00111	.00000	.10900
-10.014	999.390	200.16000	.05814	-15.03400	.00551	-.21777	-.03942	.00905	.00124	-.00000	.11011
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK065) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2730/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.509	199.720	200.12000	-.19759	-10.52600	.00225	-.19090	-.01365	.00959	.00037	-.00015	.11372
-5.507	249.650	200.11000	.51269	-10.52400	.01389	-.17002	-.02049	.00948	.00037	-.00007	.10953
-5.520	299.910	200.12000	.04767	-10.53900	.00515	-.15919	-.02528	.00886	.00087	-.00015	.10427
-5.503	399.490	200.24000	.05684	-10.52600	.00628	-.15594	-.02314	.00845	.00086	-.00015	.10526
-5.511	499.430	200.18000	.04808	-10.53100	.00573	-.14500	-.02834	.00785	.00112	-.00014	.10202
-5.515	599.450	200.29000	.05936	-10.53500	.00554	-.13913	-.03096	.00775	.00127	-.00017	.10106
-5.511	699.360	200.20000	.05967	-10.53100	.00579	-.13928	-.03100	.00708	.00123	-.00018	.10086
-5.520	799.440	200.28000	.03151	-10.54000	.00528	-.13978	-.03139	.00723	.00126	-.00017	.10146
-5.517	819.320	200.16000	-.15044	-10.53700	.00262	-.13938	-.03137	.00732	.00131	-.00018	.10100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2383/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.002	23.794	200.11000	-.33825	-5.00330	-.00117	-.09261	-.02244	.00570	-.00010	.00020	.10077
-.017	42.232	200.17000	-.15093	-5.01700	.00103	-.09519	-.01967	.00596	.00010	.00025	.10153
-.012	92.041	200.10000	.27293	-5.01620	.00567	-.08683	-.01466	.00330	.00046	.00009	.09941
-.003	141.800	200.17000	.30769	-5.01070	.00958	-.08514	-.01011	.00374	.00017	.00001	.09891
-.010	191.950	200.19000	-.25419	-5.02420	-.00185	-.07706	-.01206	.00342	.00057	.00006	.09535
.008	291.590	200.17000	.05555	-5.01180	.00305	-.07370	-.01048	.00332	.00050	.00001	.09679
.003	391.460	200.16000	.05451	-5.01640	.00330	-.06554	-.01475	.00363	.00050	.00000	.09237
.002	491.530	200.23000	.05845	-5.01650	.00307	-.06348	-.01518	.00306	.00050	-.00002	.09381
.002	591.500	200.27000	.06744	-5.01630	.00343	-.06300	-.01518	.00289	.00051	-.00002	.09387
.001	791.410	200.24000	.12958	-5.01730	.00401	-.06311	-.01520	.00284	.00055	-.00002	.09397
.002	931.350	200.17000	.25766	-5.01650	.00556	-.06387	-.01543	.00301	.00046	-.00002	.09393
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2386/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.996	-58.605	200.20000	-.23006	-.01768	-.00008	-.01535	-.00604	.00294	-.00024	-.00002	.09408
4.987	6.872	200.14000	-.05508	-.01802	.00254	-.02181	-.00261	.00336	.00023	.00009	.09763
4.992	41.849	200.15000	.09167	-.01412	.00328	-.02160	.00121	.00265	.00034	.00002	.09628
4.998	91.916	200.24000	-.04157	-.01114	.00281	-.02157	.00480	.00335	.00009	.00001	.09505
5.007	191.590	200.25000	.00915	-.01044	.00300	-.01548	.00398	.00332	-.00002	-.00007	.09355
5.006	291.510	200.25000	-.05167	-.01501	.00190	-.00751	.00094	.00271	.00017	-.00003	.08979
5.005	391.510	200.24000	-.09821	-.01406	.00123	-.00708	.00097	.00270	.00022	-.00003	.09104
5.006	591.370	200.22000	-.06008	-.01320	.00219	-.00594	.00127	.00250	.00015	-.00003	.09128
	GRADIENT	29.12483	-.00802	-.00262	.00037	-.00317	-.00038	.00049	.00003	.00001	.01421

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK066) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2719/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.031	624.890	-5.05000	.00211	.00140	-.00425	-.05573	.05704	-.00406	-.00261	.00099
-19.985	699.810	-5.03100	.00215	.00820	-.06519	-.03036	.05647	-.00450	-.00234	.00041
-20.040	799.840	-5.02000	.00208	.00943	-.14121	-.01557	.06958	-.00552	-.00210	.00026
-20.040	999.850	-5.02000	.00243	-.00040	-.14629	-.01446	.07594	-.00501	-.00243	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2723/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.050	475.080	-5.03200	.00231	.00886	-.05380	-.03245	.06746	-.00497	-.00251	.00045
-14.995	499.610	-5.02900	.00233	.01023	-.08677	-.02821	.06831	-.00511	-.00248	.00033
-15.013	549.650	-5.02400	.00243	.00193	-.12857	-.01958	.07133	-.00512	-.00248	.00032
-15.003	599.510	-5.02100	.00232	.00457	-.14389	-.01536	.07363	-.00540	-.00232	.00025
-14.996	699.330	-5.02000	.00232	.00336	-.14637	-.01472	.07534	-.00547	-.00232	.00026
-15.024	799.740	-5.02000	.00227	.00275	-.14626	-.01452	.07785	-.00555	-.00226	.00025
-15.021	999.570	-5.01900	.00242	.00278	-.14691	-.01441	.07735	-.00521	-.00241	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2727/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.040	325.060	-5.02500	.00258	.00346	-.02734	-.02628	.06969	-.00506	-.00268	.00068
-10.031	349.710	-5.02600	.00247	.00225	-.05490	-.02518	.07265	-.00519	-.00256	.00051
-10.020	399.450	-5.02500	.00261	.00297	-.10146	-.02242	.07235	-.00527	-.00267	.00033
-10.009	449.450	-5.02400	.00236	.00370	-.12823	-.01935	.07430	-.00563	-.00240	.00026
-10.012	499.500	-5.02100	.00245	.00545	-.14309	-.01578	.07488	-.00532	-.00245	.00028
-10.007	599.320	-5.02000	.00247	-.00069	-.14677	-.01450	.07663	-.00546	-.00245	.00026
-10.028	699.660	-5.02000	.00269	.00500	-.14746	-.01438	.07571	-.00502	-.00266	.00028
-10.018	799.450	-5.02000	.00250	.00380	-.14721	-.01447	.07645	-.00526	-.00248	.00027
-10.012	999.330	-5.02000	.00264	.00142	-.14711	-.01440	.07565	-.00518	-.00261	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ORBITER(O4RC1) W/ET SEPARATING (SVK068) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2731/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.529	199.880	-5.01570	.00274	-.00034	-.00519	-.01693	.07960	-.00497	-.00270	.00065
-5.510	249.240	-5.02020	.00281	.00306	-.05122	-.01934	.07588	-.00459	-.00282	.00063
-5.518	299.410	-5.02160	.00277	-.00458	-.08866	-.01959	.07438	-.00477	-.00279	.00042
-5.507	399.220	-5.02210	.00268	.00438	-.13674	-.01703	.07406	-.00506	-.00268	.00033
-5.511	499.280	-5.02020	.00269	.00276	-.14764	-.01431	.07524	-.00505	-.00265	.00029
-5.524	599.520	-5.02000	.00280	.00106	-.14756	-.01435	.07488	-.00484	-.00277	.00030
-5.519	699.400	-5.02020	.00298	.00255	-.14804	-.01422	.07436	-.00457	-.00293	.00032
-5.513	799.340	-5.02000	.00307	.00265	-.14843	-.01424	.07395	-.00443	-.00302	.00034
-5.516	819.300	-5.01990	.00306	.00328	-.14775	-.01421	.07374	-.00480	-.00300	.00033
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2384/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.022	24.023	-4.99544	.00033	.00080	-.01613	.00623	.08886	-.00597	-.00016	.00031
.016	41.328	-4.99842	.00026	.00346	-.01950	.00310	.08883	-.00621	-.00014	.00036
.030	90.926	-5.00591	.00014	.00452	-.03282	-.00451	.09220	-.00601	-.00013	.00011
.021	141.230	-5.01228	.00057	.00012	-.03490	-.01154	.09153	-.00541	-.00062	.00037
.004	191.340	-5.01615	.00036	.00173	-.05759	-.01477	.08720	-.00607	-.00046	.00057
.011	291.170	-5.02108	.00028	.00033	-.10443	-.01789	.08451	-.00638	-.00043	.00019
.001	391.430	-5.01901	.00031	.00530	-.13064	-.01416	.08460	-.00646	-.00041	.00014
-.003	491.580	-5.01856	.00030	.00231	-.13161	-.01372	.08533	-.00642	-.00040	.00013
.002	591.360	-5.01864	.00031	.00303	-.13174	-.01373	.08548	-.00642	-.00041	.00014
-.002	791.410	-5.01866	.00030	.00228	-.13199	-.01372	.08546	-.00652	-.00040	.00014
.001	931.390	-5.01868	.00030	.00171	-.13168	-.01374	.08558	-.00639	-.00040	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2387/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.941	-57.081	-4.99509	.00067	.00080	-.05358	.00907	.09337	-.00588	-.00046	.00011
5.039	5.609	-5.00368	.00024	-.00014	-.06076	-.00064	.09096	-.00682	-.00016	.00022
5.004	41.181	-5.00584	.00026	-.00314	-.06232	-.00413	.09332	-.00632	-.00024	.00011
5.006	91.251	-5.01202	.00062	.00625	-.05568	-.01019	.09307	-.00582	-.00065	.00028
5.015	191.140	-5.01832	.00032	.00117	-.09050	-.01613	.08731	-.00636	-.00044	.00024
5.003	291.350	-5.02002	.00034	.00431	-.12278	-.01571	.08563	-.00654	-.00045	.00017
5.002	391.350	-5.01858	.00035	.00008	-.13177	-.01369	.08660	-.00663	-.00045	.00015
5.003	591.210	-5.01866	.00036	.00282	-.13197	-.01373	.08688	-.00646	-.00045	.00014
	GRADIENT	-.99213	.00004	-.00002	-.01083	-.00011	.01622	-.00122	-.00003	.00004

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK066) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2719/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.031	624.890	400.10000	-.05482	-25.08100	.00350	-.46998	-.04011	.01864	-.00016	.00043	.13445
-19.985	699.810	399.87000	.18303	-25.01600	.01035	-.51320	-.01203	.02168	-.00213	.00070	.15724
-20.040	799.840	400.04000	.60642	-25.06000	.01150	-.48961	-.02204	.01911	-.00135	.00038	.14991
-20.040	999.850	400.18000	-.09839	-25.06000	.00203	-.45620	-.03972	.01846	-.00045	.00039	.13833
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2723/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.050	475.080	400.13000	.47259	-20.08200	.01117	-.34117	-.04262	.01151	00137	.00007	.11516
-14.995	499.610	400.08000	.49906	-20.02400	.01255	-.33460	-.04398	.01262	.00084	.00015	.11977
-15.013	549.650	400.08000	-.01516	-20.03700	.00436	-.33873	-.04022	.01275	.00051	.00011	.12213
-15.003	599.510	400.04000	.09708	-20.02400	.00589	-.34513	-.03419	.01312	.00011	.00013	.12590
-14.996	699.330	400.13000	.07396	-20.01600	.00569	-.35255	-.02650	.01341	-.00026	.00018	.13372
-15.024	799.740	400.19000	.10710	-20.04400	.00502	-.33497	-.03616	.01240	.00042	.00012	.12445
-15.021	999.570	400.21000	.05568	-20.04000	.00521	-.32376	-.04202	.01226	.00063	.00016	.12331
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2727/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.040	325.060	400.04000	.01601	-15.06500	.00604	-.26565	-.02411	.01108	.00003	.00032	.12304
-10.031	349.710	400.18000	.15223	-15.05700	.00471	-.24466	-.03455	.01022	.00080	.00008	.11181
-10.020	399.450	400.06000	.12059	-15.04500	.00558	-.23135	-.03866	.00968	.00112	-.00001	.10944
-10.009	449.450	400.14000	.06891	-15.03300	.00606	-.23344	-.03571	.00977	.00092	-.00002	
-10.012	499.500	400.08000	.26375	-15.03300	.00790	-.23624	-.03172	.01008	.00079	-.00002	
-10.007	599.320	400.11000	-.17166	-15.02700	.00178	-.23596	-.02804	.00950	.00065	.00005	.10958
-10.028	699.660	400.[illegible]000	.28302	-15.04800	.00769	-.22046	-.03712	.00914	.00108	.00001	.10945
-10.018	799.450	40[illegible]00	.09835	-15.03800	.00630	-.21784	-.03902	.00891	.00109	-.00000	.10950
-10.012	999.330	40[illegible].000	-.04016	-15.03200	.00406	-.21772	-.03938	.00849	.00124	.00001	.10910
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK066) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2731/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.529	199.880	400.04000	-.11267	-10.54500	.00240	-.18678	-.02016	.00846	.00095	-.00006	.11193
-5.510	249.240	400.14000	.06131	-10.53000	.00588	-.17099	-.02368	.00866	.00100	-.00002	.10925
-5.518	299.410	400.15000	-.53205	-10.54000	-.00181	-.15642	-.02929	.00785	.00109	-.00014	.10329
-5.507	399.220	400.09000	.12614	-10.52900	.00706	-.15440	-.02602	.00825	.00087	-.00013	.10358
-5.511	499.280	400.15000	-.00049	-10.53100	.00545	-.15291	-.02385	.00814	.00073	-.00012	.10595
-5.524	599.520	400.12000	.01373	-10.54400	.00387	-.14011	-.03051	.00718	.00118	-.00016	.09937
-5.519	699.400	400.23000	.05103	-10.53900	.00553	-.13908	-.03096	.00743	.00126	-.00016	.10086
-5.513	799.340	400.22000	.07062	-10.53300	.00573	-.14008	-.03127	.00736	.00127	-.00018	.10231
-5.516	819.300	400.24000	.10294	-10.53500	.00634	-.14008	-.03131	.00705	.00121	-.00017	.10156
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2384/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.022	24.023	400.04000	-.16597	-5.01730	.00113	-.09202	-.02809	.00432	.00015	.00013	.09712
.016	41.328	400.09000	.02207	-4.98270	.00372	-.09301	-.02379	.00415	.00023	.00012	.09849
.030	90.926	400.17000	.16536	-4.97610	.00467	-.09009	-.01560	.00387	.00017	.00007	.10043
.021	141.230	400.12000	-.13215	-4.99110	.00069	-.08534	-.01255	.00345	.00062	.00005	.09800
.004	191.340	400.15000	-.04835	-5.01260	.00209	-.07656	-.01446	.00327	.00063	.00002	.09473
.011	291.170	400.16000	-.19597	-5.00990	.00060	-.07401	-.01234	.00352	.00047	.00003	.09509
.001	391.430	400.21000	.26589	-5.01760	.00561	-.07007	-.01190	.00367	.00038	.00001	.09532
-.003	491.580	400.17000	.01294	-5.02200	.00260	-.06351	-.01522	.00327	.00057	-.00002	.09302
.002	591.360	400.14000	-.00411	-5.01650	.00334	-.06269	-.01495	.00308	.00051	-.00003	.09325
-.002	791.410	400.31000	.05327	-5.02030	.00258	-.06325	-.01531	.00274	.00049	-.00002	.09477
.001	931.380	400.21000	-.01853	-5.01770	.00201	-.06322	-.01533	.00348	.00051	-.00003	.09402
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2387/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.941	-57.081	399.98000	-.11619	-.05399	.00147	-.02418	-.01770	.00366	-.00027	.00009	.09633
5.039	5.609	400.23000	-.14371	.03552	.00010	-.02261	-.00398	.00222	.00018	.00002	.09873
5.004	41.181	400.20000	-.38817	-.00244	-.00287	-.02118	-.00032	.00252	.00009	-.00002	.09746
5.003	91.251	400.23000	.26016	-.00582	.00687	-.02107	.00255	.00328	.00031	-.00002	.09522
5.015	191.140	400.17000	-.07896	-.00352	.00149	-.01707	.00383	.00289	.00026	-.00008	.09445
5.003	291.350	400.15000	.07156	-.01652	.00464	-.01103	.00290	.00343	-.00008	-.00004	.09256
5.002	391.350	400.15000	-.16991	-.01698	.00044	-.00695	.00098	.00306	.00026	-.00004	.09104
5.003	591.210	400.15000	.02187	-.01536	.00318	-.00612	.00153	.00269	.00024	-.00003	.09073
	GRADIENT	71.35878	-.02562	.00633	.00002	-.00403	-.00071	.00040	.00003	.00000	.01760

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK067) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	600.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	.000		
GAS =	1.000				

RUN NO. 2720/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.031	625.200	-5.02400	.00223	.00335	-.12754	-.01979	.06978	-.00538	-.00229	.00040
-20.034	700.360	-5.02000	.00257	.00309	-.14318	-.01523	.07015	-.00485	-.00257	.00028
-20.004	799.630	-5.02100	.00256	.00356	-.14282	-.01527	.07099	-.00474	-.00256	.00022
-20.005	999.580	-5.02000	.00247	.00540	-.14655	-.01440	.07626	-.00498	-.00246	.00028
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2724/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.012	474.700	-5.02600	.00248	.00966	-.11279	-.02323	.06985	-.00517	-.00256	.00034
-15.017	499.850	-5.02400	.00245	-.00068	-.12940	-.01919	.07194	-.00531	-.00248	.00031
-15.022	549.820	-5.02100	.00250	.00543	-.14444	-.01515	.07431	-.00512	-.00249	.00029
-15.030	599.970	-5.02000	.00246	.00447	-.14690	-.01430	.07618	-.00532	-.00244	.00028
-15.013	699.750	-5.02000	.00258	-.00115	-.14746	-.01437	.07648	-.00501	-.00257	.00029
-14.994	799.300	-5.01900	.00270	.00151	-.14716	-.01427	.07572	-.00483	-.00267	.00031
-15.012	999.430	-5.02000	.00257	.00202	-.14704	-.01435	.07653	-.00510	-.00255	.00029
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2728/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.010	324.660	-5.02700	.00256	.00973	-.08973	-.02622	.07281	-.00503	-.00267	.00044
-10.012	349.720	-5.02600	.00268	-.00294	-.09559	-.02414	.07164	-.00493	-.00277	.00039
-10.020	399.760	-5.02300	.00285	.00301	-.12678	-.01969	.07126	-.00480	-.00288	.00033
-10.025	449.700	-5.02100	.00286	.00231	-.14374	-.01558	.07287	-.00487	-.00284	.00032
-10.024	499.810	-5.02000	.00267	.00188	-.14732	-.01435	.07483	-.00526	-.00263	.00028
-10.012	599.600	-5.02000	.00276	.00160	-.14787	-.01433	.07510	-.00511	-.00272	.00029
-10.004	699.400	-5.01900	.00280	.00455	-.14772	-.01432	.07494	-.00483	-.00276	.00030
-10.017	799.390	-5.02000	.00278	.00305	-.14734	-.01433	.07507	-.00497	-.00274	.00030
-10.013	999.390	-5.02000	.00279	.00309	-.14737	-.01435	.07514	-.00494	-.00275	.00030
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK067) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2732/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.521	200.010	-5.02050	.00283	.00245	-.02778	-.02078	.07681	-.00463	-.00285	.00070
-5.517	249.790	-5.02240	.00264	.00569	-.07582	-.02090	.07503	-.00505	-.00268	.00046
-5.525	299.750	-5.02370	.00317	.00234	-.11043	-.02056	.07106	-.00404	-.00320	.00044
-5.525	399.680	-5.02050	.00310	-.00088	-.14511	-.01509	.07210	-.00444	-.00306	.00035
-5.511	499.490	-5.02020	.00284	.00154	-.14860	-.01436	.07490	-.00485	-.00280	.00030
-5.507	599.370	-5.02020	.00304	-.00091	-.14834	-.01429	.07380	-.00447	-.00299	.00033
-5.516	699.320	-5.01960	.00298	.00242	-.14819	-.01428	.07402	-.00461	-.00294	.00032
-5.512	799.300	-5.01990	.00294	.00453	-.14790	-.01425	.07432	-.00482	-.00289	.00031
-5.512	819.290	-5.01950	.00292	.00236	-.14780	-.01427	.07436	-.00473	-.00287	.00031
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK067) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2720/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.031	625.200	600.17000	.12802	-25.05500	.00558	-.44988	-.05172	.01825	.00035	.00033	.12894
-20.034	700.360	600.18000	.13662	-25.05400	.00566	-.46442	-.04130	.01884	-.00036	.00036	.13664
-20.004	799.630	600.13000	.02629	-25.02500	.00612	-.48139	-.02826	.01928	-.00095	.00037	.14430
-20.005	999.580	600.11000	.25695	-25.02500	.00787	-.46531	-.03511	.01796	-.00023	.00029	.13953
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-09A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK067) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2724/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.012	474.700	600.20000	.56540	-20.03800	.01214	-.31794	-.05473	.01165	.00143	.00010	.11398
-15.017	499.850	600.17000	-.13735	-20.04100	.00177	-.32003	-.05276	.01175	.00129	.00008	.11535
-15.022	549.820	600.20000	.25210	-20.04300	.00793	-.33032	-.04630	.01229	.00083	.00010	.11793
-15.030	599.970	600.21000	.24754	-20.05000	.00694	-.33859	-.03980	.01271	.00054	.00011	.12215
-15.013	699.750	600.23000	-.11762	-20.03300	.00143	-.34816	-.03049	.01281	.00012	.00014	.12894
-14.994	799.300	600.12000	-.18643	-20.01300	.00420	-.34365	-.02998	.01407	-.00077	.00029	.13366
-15.012	999.430	600.26000	-.02028	-20.03200	.00459	-.32393	-.04209	.01195	.00060	.00016	.12303
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2728/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.010	324.660	600.08000	.47651	-15.03700	.01230	-.24001	-.03908	.00846	.00171	-.00003	.11277
-10.012	349.720	600.12000	-.27121	-15.03800	-.00026	-.22889	-.04368	.00843	.00176	-.00002	.10775
-10.020	399.760	600.12000	.10225	-15.04300	.00586	-.22234	-.04474	.00856	.00146	-.00003	.10529
-10.025	449.700	600.13000	.09503	-15.04600	.00517	-.22782	-.04000	.00947	.00107	-.00004	.10829
-10.024	499.810	600.24000	.03337	-15.04400	.00455	-.23165	-.03575	.00948	.00084	-.00003	.10978
-10.012	599.600	600.07000	-.01679	-15.03200	.00436	-.23537	-.02956	.00957	.00074	.00000	.11355
-10.004	699.400	600.16000	.08513	-15.02300	.00734	-.22859	-.03167	.00973	.00043	.00003	.11608
-10.017	799.390	600.29000	.05042	-15.03700	.00583	-.21755	-.03903	.00884	.00108	-.00000	.10988
-10.013	999.390	600.23000	.04235	-15.03300	.00588	-.21802	-.03911	.00834	.00114	.00001	.10972
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2732/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.521	200.010	600.15000	.05981	-10.54100	.00527	-.17681	-.03138	.00794	.00139	-.00001	.10599
-5.517	249.790	600.23000	.27361	-10.53900	.00833	-.16029	-.03196	.00761	.00140	-.00008	.10543
-5.525	299.750	600.18000	.07322	-10.54900	.00552	-.15082	-.03392	.00681	.00146	-.00019	.10139
-5.525	399.680	600.27000	-.21674	-10.54600	.00223	-.15218	-.02915	.00798	.00094	-.00013	.10185
-5.511	499.490	600.17000	-.08737	-10.53100	.00438	-.15352	-.02454	.00794	.00086	-.00014	.10465
-5.507	599.370	600.14000	-.27611	-10.52700	.00212	-.14602	-.02684	.00746	.00091	-.00012	.10283
-5.516	699.320	600.18000	.01610	-10.53600	.00540	-.13950	-.03100	.00741	.00120	-.00017	.10135
-5.512	799.300	600.31000	.18021	-10.53200	.00747	-.14013	-.03127	.00685	.00119	-.00017	.10197
-5.512	819.290	600.18000	-.02689	-10.53200	.00528	-.14021	-.03136	.00692	.00119	-.00017	.10200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (SVK068) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2863/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.011	624.890	-5.02300	3.00260	-.00590	.25298	-.03774	.08586	-.03643	-.00226	.00434
-19.970	698.910	-5.03000	3.00002	-.00172	.21294	-.04395	.08075	-.03670	.00008	.00602
-20.052	799.630	-5.03300	3.00451	-.00891	.02457	-.03846	.07357	-.03646	-.00407	.00429
-20.047	999.870	-5.02000	3.00474	-.00344	-.14040	-.01455	.07995	-.04132	-.00392	.00111
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2867/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.000	474.560	-5.03100	3.00474	-.00414	.19071	-.04366	.08853	-.03837	-.00418	.00505
-15.002	499.350	-5.03500	3.00459	-.00529	.16253	-.04625	.08697	-.03838	-.00410	.00444
-14.983	549.120	-5.03500	3.00341	.00289	.11948	-.04477	.08046	-.03555	-.00307	.00432
-15.005	599.300	-5.03600	3.00417	.00103	.05517	-.04123	.07487	-.03612	-.00376	.00378
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2871/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.993	324.440	-5.02250	3.00529	-.00269	.16722	-.03248	.09621	-.03776	-.00459	.00180
-10.049	349.830	-5.02600	3.00599	-.00569	.09902	-.03373	.08954	-.03587	-.00527	.00304
-10.006	399.150	-5.03200	3.00520	.00060	.02762	-.03601	.07633	-.03819	-.00458	.00388
-10.014	449.460	-5.03100	3.00517	-.00317	-.04068	-.03164	.07582	-.03949	-.00447	.00248
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2875/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.564	202.700	-5.00960	3.00360	.04160	.09010	-.01441	.09340	-.04445	-.00274	.00083
-5.531	249.380	-5.01700	3.00476	-.00856	.00781	-.01855	.08565	-.04053	-.00393	.00105
-5.516	299.390	-5.01970	3.00611	-.00421	-.02904	-.01945	.08297	-.03623	-.00527	.00222
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC2)

(AVK058) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2863/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.011	624.890	-.04886	-.14737	-25.03400	2.99670	-.51660	-.01538	-.04068	-.00636	.00134	.12999
-19.970	698.910	-.14238	-.23778	-25.00000	2.99830	-.54816	.00577	-.03840	-.00751	.00135	.16525
-20.052	799.630	.19611	-.16421	-25.08500	2.99560	-.48540	-.02549	-.03934	-.00697	.00057	.13987
-20.047	999.870	.13637	-.08012	-25.06700	3.00130	-.46159	-.03826	-.04016	-.00664	.00067	.14035
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2867/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.000	474.560	.02961	-.00287	-20.03100	3.00060	-.36807	-.02410	-.04080	-.00593	.00069	.11698
-15.002	499.350	.05243	-.29299	-20.03700	2.99930	-.36950	-.02278	-.03989	-.00611	.00082	.12811
-14.983	549.120	-.01102	.09902	-20.01800	3.00630	-.39359	-.00721	-.03718	-.00777	.00093	.14629
-15.005	599.300	-.04869	.23766	-20.04100	3.00520	-.39008	-.00561	-.03742	-.00819	.00061	.15070
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2871/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.993	324.440	.09879	-.09745	-15.01600	3.00260	-.30010	.00085	-.03621	-.00840	.00024	.12906
-10.049	349.830	.21355	.00231	-15.07500	3.00030	-.25835	-.02363	-.03730	-.00706	.00046	.11348
-10.006	399.150	.07612	.14523	-15.03800	3.00580	-.25382	-.02254	-.03660	-.00741	.00053	.12062
-10.014	449.460	.06191	-.12185	-15.04500	3.00200	-.24690	-.02456	-.03485	-.00802	.00038	.11778
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2875/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.564	202.700	-1.26840	1.80750	-10.57400	3.04520	-.22245	.00475	-.03375	-.00896	.00028	.12388
-5.531	249.380	.14208	-.22929	-10.54800	2.99620	-.17633	-.01579	-.03385	-.00819	.00020	.11115
-5.516	299.390	.20474	-.09214	-10.53600	3.00190	-.16391	-.02062	-.03282	-.00874	.00037	.10869
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (SVK069) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2864/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.043	625.560	-5.04900	3.00378	-.00318	.17330	-.00264	.08114	-.03842	-.00353	.00366
-19.974	699.530	-5.04600	3.00289	-.00369	.11021	-.05610	.06301	-.03600	-.00276	.00384
-19.970	799.240	-5.03300	3.00475	.00205	-.05440	-.03234	.07071	-.03998	-.00408	.00137
-20.017	999.630	-5.02000	3.00485	-.00285	-.14140	-.01423	.08092	-.04160	-.00398	.00113
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2868/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.006	474.810	-5.04700	3.00453	-.00443	.09052	-.03528	.07515	-.03955	-.00413	.00356
-15.009	499.810	-5.04600	3.00475	-.00095	.04674	-.05189	.07208	-.03945	-.00431	.00299
-15.006	549.580	-5.04100	3.00497	-.00367	-.03202	-.04344	.06901	-.04020	-.00441	.00191
-15.045	599.930	-5.03100	3.00505	-.00915	-.08367	-.02957	.07063	-.04084	-.00430	.00119
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2872/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-9.976	324.340	-5.03610	3.00517	.00253	.08497	-.04348	.07673	-.03768	-.00157	.00460
-10.014	349.820	-5.03100	3.00516	.00064	.01195	-.03346	.07734	-.03823	-.00445	.00354
-10.005	399.700	-5.02700	3.00539	-.00359	-.05449	-.02643	.07514	-.03924	-.00458	.00252
-10.028	449.800	-5.02500	3.00510	-.00360	-.10187	-.02105	.07833	-.04062	-.00428	.00171
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2876/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.502	199.640	-5.01880	3.00462	-.00292	.02838	-.02139	.08422	-.04128	-.00383	.00076
-5.507	249.650	-5.01680	3.00582	-.00322	-.02265	-.01687	.08499	-.03698	-.00494	.00200
-5.518	299.600	-5.02030	3.00555	-.00255	-.06146	-.01866	.08032	-.03862	-.00467	.00294
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK069) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2864/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.043	625.560	200.14000	.35665	-25.09200	3.00060	-.51136	-.02278	-.04283	-.00480	.00129	.12294
-19.974	699.530	200.05000	.01277	-25.02000	2.99920	-.54236	-.00160	-.03905	-.00680	.00158	.15708
-19.970	799.240	199.94000	.22329	-25.00300	3.00680	-.49155	-.02008	-.03961	-.00761	.00070	.15308
-20.017	999.630	200.06000	.05528	-25.03700	3.00200	-.45679	-.03809	-.04013	-.00646	.00065	.13826
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2868/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.006	474.810	200.07000	-.08543	-20.05300	3.00010	-.37180	-.02659	-.04138	-.00519	.00068	.11591
-15.009	499.810	200.03000	.30985	-20.05500	3.00380	-.35949	-.03043	-.04158	-.00528	.00069	.12564
-15.006	549.580	200.18000	.08128	-20.04700	3.00130	-.35670	-.02956	-.03943	-.00595	.00070	.12673
-15.045	599.930	200.15000	-.17604	-20.07600	2.99590	-.36131	-.02456	-.03849	-.00662	.00059	.13101
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2872/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-9.976	324.340	200.06000	.50021	-15.01200	3.00770	-.28487	-.01123	-.03868	-.00701	.00008	.12413
-10.014	349.820	200.21000	.21612	-15.04500	3.00580	-.25277	-.02860	-.03776	-.00697	.00036	.11123
-10.005	399.700	200.18000	.15949	-15.03200	3.00180	-.24975	-.02723	-.03752	-.00680	.00043	.11688
-10.028	449.800	200.16000	.02074	-15.05300	3.00150	-.24336	-.02685	-.03642	-.00744	.00050	.11505
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2876/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.502	199.640	200.03000	.02008	-10.52100	3.00170	-.19519	-.01129	-.03595	-.00746	.00025	.11493
-5.507	249.650	200.11000	.11319	-10.52400	3.00260	-.17311	-.01935	-.03495	-.00802	.00015	.11097
-5.518	299.600	200.06000	.08749	-10.53800	3.00300	-.16237	-.02387	-.03416	-.00811	.00025	.10673
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (SVK070) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2865/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.027	624.850	-5.05300	3.00482	-.00233	.01076	-.05813	.05999	-.04058	-.00445	.00196
-19.986	699.960	-5.03100	3.00486	-.00216	-.05397	-.03016	.05961	-.03837	-.00419	.00133
-20.033	799.840	-5.02100	3.00513	-.00053	-.13439	-.01561	.07185	-.04063	-.00422	.00123
-20.042	999.860	-5.02000	3.00492	-.00422	-.14102	-.01426	.08104	-.04158	-.00402	.00113
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2869/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.049	475.110	-5.03300	3.00517	-.00507	-.04852	-.03260	.07129	-.03948	-.00451	.00236
-15.008	499.540	-5.03000	3.00517	-.01027	-.08096	-.02819	.07224	-.04032	-.00446	.00178
-15.011	549.620	-5.02400	3.00508	-.00028	-.12575	-.01861	.07703	-.04118	-.00419	.00131
-14.998	599.440	-5.02100	3.00515	-.00085	-.13828	-.01521	.07804	-.04106	-.00422	.00119
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2873/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.044	325.080	-5.02600	3.00513	-.00103	-.02330	-.02672	.07514	-.03902	-.00440	.00299
-10.025	349.680	-5.02600	3.00507	-.00877	-.05095	-.02535	.07878	-.03983	-.00431	.00250
-10.022	399.490	-5.02500	3.00531	-.00201	-.09716	-.02219	.07827	-.04052	-.00449	.00172
-10.010	449.460	-5.02400	3.00535	-.00255	-.12515	-.01850	.07852	-.04078	-.00445	.00132
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2877/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.531	199.890	-5.01530	3.00598	-.00538	-.00059	-.01674	.08399	-.03721	-.00504	.00210
-5.509	249.210	-5.02030	3.00538	-.00318	-.04828	-.01955	.08047	-.03858	-.00456	.00269
-5.520	299.550	-5.02220	3.00535	-.00515	-.08273	-.01992	.08009	-.03970	-.00455	.00205
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC2) (AVK070) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2865/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.027	624.850	399.97000	.17858	-25.08000	3.00250	-.48146	-.03622	-.04523	-.00392	.00100	.13651
-19.986	699.960	399.81000	-.19203	-25.01700	3.00270	-.52812	-.00783	-.04099	-.00568	.00135	.15813
-20.033	799.840	400.02000	-.01058	-25.05400	3.00460	-.49642	-.01974	-.04007	-.00680	.00087	.15139
-20.042	999.860	400.24000	-.01892	-25.06200	3.00070	-.46206	-.03830	-.04019	-.00644	.00066	.13882
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2869/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.049	475.110	400.06000	-.06508	-20.08200	3.00010	-.34638	-.04131	-.04263	-.00487	.00064	.11633
-15.008	499.540	400.00000	-.40929	-20.03800	2.99490	-.34413	-.04049	-.04241	-.00467	.00066	.12277
-15.011	549.620	400.03000	.12265	-20.03500	3.00480	-.34486	-.03780	-.04038	-.00557	.00058	.12379
-14.998	599.440	400.06000	.11617	-20.01900	3.00430	-.35279	-.03138	-.03938	-.00604	.00060	.12704
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2873/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.044	325.080	399.98000	.07551	-15.07000	3.00410	-.26566	-.02415	-.03804	-.00755	.00034	.12232
-10.025	349.680	400.15000	-.28844	-15.05100	2.99630	-.24751	-.03334	-.03784	-.00684	.00031	.11337
-10.022	399.490	400.06000	.18869	-15.04700	3.00330	-.23659	-.03651	-.03818	-.00631	.00041	.11100
-10.010	449.460	400.04000	-.02231	-15.03400	3.00280	-.23770	-.03398	-.03626	-.00696	.00040	.11200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2877/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.531	199.890	400.10000	-.15242	-10.54600	3.00060	-.18989	-.01872	-.03779	-.00751	.00043	.11178
-5.509	249.210	400.16000	-.15546	-10.52900	3.00220	-.17253	-.02200	-.03532	-.00837	.00024	.11153
-5.520	299.550	400.13000	-.04242	-10.54200	3.00020	-.15986	-.02790	-.03491	-.00783	.00023	.10473
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC2) W/ET SEPARATING (SVK071) (2 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = 3.000
DBETA = .000 X = 600.000
Y = .000 ELEV. = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2866/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.026	625.220	-5.02400	3.00496	-.00786	-.12309	-.01906	.07417	-.04115	-.00411	.00109
-20.034	700.440	-5.02100	3.00512	-.00522	-.13570	-.01529	.07518	-.04076	-.00425	.00109
-19.998	799.630	-5.02100	3.00505	-.01085	-.13548	-.01534	.07602	-.04118	-.00415	.00105
-20.006	999.560	-5.02000	3.00502	.00098	-.14094	-.01422	.08087	-.04121	-.00408	.00114
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2870/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.014	474.710	-5.02600	3.00530	-.00570	-.10985	-.02246	.07537	-.04069	-.00445	.00139
-15.020	499.840	-5.02300	3.00522	-.00332	-.12695	-.01826	.07744	-.04090	-.00430	.00128
-15.023	549.840	-5.02100	3.00512	-.00192	-.13916	-.01504	.07986	-.04103	-.00422	.00122
-15.020	599.800	-5.02000	3.00509	-.00409	-.14099	-.01440	.07999	-.04118	-.00422	.00113
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2874/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.010	324.630	-5.02700	3.00537	-.00137	-.06496	-.02586	.07782	-.03974	-.00461	.00227
-10.010	349.670	-5.02600	3.00511	.00109	-.09019	-.02398	.07823	-.04057	-.00435	.00181
-10.020	399.740	-5.02400	3.00552	-.00422	-.12399	-.01892	.07734	-.04057	-.00459	.00138
-10.026	449.720	-5.02100	3.00519	-.00089	-.13797	-.01541	.07951	-.04109	-.00430	.00127
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC2) (AVK071) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	3.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2866/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.026	625.220	600.11000	-.10604	-25.05000	2.99710	-.46206	-.04640	-.04675	-.00325	.00091	.13420
-20.034	700.440	600.17000	.05143	-25.05500	2.99990	-.47405	-.03766	-.04433	-.00488	.00083	.13758
-19.998	799.630	600.07000	-.47127	-25.01900	2.99420	-.49074	-.02479	-.04131	-.00638	.00099	.14699
-20.006	999.560	600.01000	.23190	-25.02600	3.00600	-.46891	-.03380	-.04068	-.00691	.00063	.13880
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2870/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.014	474.710	600.19000	-.16737	-20.04000	2.99960	-.32710	-.05192	-.04399	-.00449	.00060	.11689
-15.020	499.840	600.10000	.10547	-20.04300	3.00190	-.32851	-.05000	-.04310	-.00467	.00062	.11706
-15.023	549.840	600.11000	.20274	-20.04400	3.00320	-.33664	-.04362	-.04139	-.00549	.00056	.11993
-15.020	599.800	600.13000	-.06702	-20.04000	3.00100	-.34506	-.03732	-.04075	-.00574	.00054	.12252
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2874/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.010	324.630	600.18000	.11982	-15.03700	3.00400	-.24290	-.03837	-.04102	-.00660	.00035	.11497
-10.010	349.670	600.15000	.41836	-15.03600	3.00620	-.23111	-.04283	-.04048	-.00650	.00041	.11001
-10.020	399.740	600.15000	.00576	-15.04400	3.00130	-.22800	-.04292	-.03897	-.00661	.00040	.10842
-10.026	449.720	599.96000	.09435	-15.04700	3.00430	-.23223	-.03852	-.03733	-.00696	.00033	.10970
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK072) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	.000		
GAS =	1.000				

RUN NO. 2763/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.013	624.970	-.02400	.00176	-.00420	.37915	-.04558	.07432	-.00154	-.00207	.00388
-20.029	699.420	-.03400	.00155	-.00192	.22505	-.04900	.07003	-.00254	-.00193	.00282
-20.050	799.750	-.02600	.00239	.00386	.04668	-.03107	.05546	-.00237	-.00252	.00071
-20.027	999.650	-.01300	.00204	.00647	-.04793	-.01134	.06584	-.00355	-.00196	.00032
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2767/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.006	474.530	-.02100	.00301	.00878	.32206	-.03932	.08510	-.00098	-.00320	.00295
-15.037	499.660	-.02500	.00315	-.01554	.26935	-.04130	.07509	-.00063	-.00336	.00232
-15.017	549.360	-.03100	.00250	.00532	.16366	-.04189	.06157	-.00211	-.00276	.00187
-15.032	599.750	-.02600	.00233	.00291	.06293	-.03110	.05932	-.00318	-.00248	.00091
-15.032	699.610	-.01500	.00242	.00282	-.03712	-.01450	.06126	-.00329	-.00238	.00039
-15.018	799.490	-.01300	.00239	.00535	-.04845	-.01129	.06547	-.00344	-.00231	.00038
-15.015	999.390	-.01200	.00261	.02085	-.04866	-.01116	.06506	-.00305	-.00251	.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2771/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.507	352.290	-.00500	.00266	.00256	.29114	-.02038	.08083	-.00298	-.00261	.00194
-10.590	400.050	-.01500	.00323	-.01000	.14539	-.02419	.07170	-.00149	-.00324	.00089
-10.515	449.430	-.01800	.00296	.00551	.10164	-.02479	.06486	-.00185	-.00300	.00093
-10.521	499.510	-.01600	.00245	.00395	.03984	-.02054	.06410	-.00333	-.00246	.00086
-10.515	599.390	-.01600	.00257	-.00114	-.03234	-.01522	.06278	-.00320	-.00253	.00042
-10.515	699.450	-.01200	.00253	.00271	-.04935	-.01121	.06522	-.00335	-.00244	.00040
-10.513	799.350	-.01200	.00288	-.00192	-.04951	-.01109	.06396	-.00278	-.00277	.00044
-10.512	999.290	-.01300	.00317	.00291	-.05051	-.01099	.06263	-.00221	-.00305	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK072) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2406/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.039	168.880	.00010	.00059	-.00027	.07312	-.00335	.09662	-.00432	-.00049	.00068
-4.992	191.620	.00190	.00050	.00448	.08707	-.00192	.09256	-.00424	-.00039	.00048
-5.003	241.340	-.00140	.00041	-.00559	.05863	-.00423	.08539	-.00382	-.00035	.00010
-5.003	291.540	-.00270	.00049	.00635	.04812	-.00510	.08737	-.00355	-.00045	-.00006
-5.006	391.540	-.01320	.00035	-.00075	.05383	-.01715	.08210	-.00303	-.00047	.00011
-5.000	491.380	-.01530	.00031	.00138	-.01410	-.01606	.07616	-.00345	-.00042	.00016
-4.999	591.490	-.01350	.00035	.00138	-.04526	-.01246	.07856	-.00326	-.00044	.00009
-5.000	691.480	-.01300	.00036	.00176	-.04820	-.01165	.07774	-.00338	-.00043	.00009
-5.001	791.370	-.01300	.00035	.00141	-.04847	-.01162	.07798	-.00343	-.00042	.00009
-4.999	991.320	-.01300	.00035	.00174	-.04780	-.01165	.07808	-.00328	-.00042	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2409/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.005	11.707	-.01240	.00033	.00241	-.02779	-.01218	.08001	-.00374	-.00039	.00015
.001	41.611	-.01154	.00049	.00181	-.03225	-.01084	.08677	-.00336	-.00053	.00017
.000	91.689	-.00626	.00055	.00282	-.02214	-.00542	.09388	-.00432	-.00050	.00013
.002	141.560	.00128	.00035	.00345	-.01173	.00237	.09076	-.00476	-.00021	-.00011
.007	191.410	.00069	.00031	.00322	.00477	.00087	.08976	-.00462	-.00019	-.00007
-.002	291.450	-.00905	.00036	.00498	.03624	-.01143	.08981	-.00356	-.00040	.00001
.008	391.310	-.01517	.00031	.00015	.00547	-.01657	.08051	-.00334	-.00043	.00017
.003	491.390	-.01472	.00033	.00162	-.03681	-.01377	.07923	-.00342	-.00042	.00009
.002	591.480	-.01328	.00033	.00133	-.04833	-.01170	.08046	-.00358	-.00039	.00009
.006	791.260	-.01330	.00033	.00244	-.04815	-.01170	.08072	-.00343	-.00039	.00009
.005	871.280	-.01329	.00034	.00188	-.04768	-.01169	.08085	-.00333	-.00041	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2412/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
5.065	-60.482	-.01630	.00023	.00029	-.05478	-.01499	.07121	-.00383	-.00034	.00006
4.993	6.373	-.01430	.00030	.00185	-.06158	-.01228	.08619	-.00441	-.00037	.00010
4.987	41.592	-.00880	.00045	.00416	-.05428	-.00667	.09189	-.00416	-.00044	-.00007
4.989	91.585	-.00090	.00051	.00226	-.03354	.00110	.09265	-.00470	-.00039	-.00007
4.986	191.420	-.00480	.00040	-.00172	.01010	-.00550	.09096	-.00383	-.00037	.00002
4.995	291.210	-.01280	.00029	.00363	.02396	-.01512	.08403	-.00351	-.00039	.00003
4.991	391.300	-.01480	.00033	.00261	-.02651	-.01477	.07994	-.00340	-.00044	.00010
4.987	531.390	-.01290	.00036	.00136	-.04804	-.01159	.08088	-.00362	-.00042	.00009
	GRADIENT	-.00224	.00005	.00029	-.00966	-.00193	.01352	-.00069	-.00006	.00001

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK072) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2763/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.013	624.970	-.05825	-.39661	-20.03700	-.00243	-.39364	-.00499	.01646	-.00144	.00059	.13923
-20.029	699.420	.10376	-.09670	-20.06300	-.00037	-.36692	-.02128	.01325	.00016	.00014	.13066
-20.050	799.750	.13168	.21201	-20.07600	.00625	-.32875	-.04096	.01342	.00049	.00015	.12160
-20.027	999.650	.05135	.30229	-20.04000	.00850	-.32639	-.04104	.01288	.00066	.00014	.12172
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2767/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.006	474.530	-.01216	.51102	-15.02700	.01180	-.28972	-.00265	.01039	-.00009	-.00016	.11820
-15.037	499.660	.04258	-1.12850	-15.06200	-.01239	-.26068	-.01812	.01102	.00008	.00008	.11905
-15.017	549.360	.19490	.19239	-15.04800	.00782	-.24772	-.02474	.01067	.00027	-.00002	.11626
-15.032	599.750	.20029	.12133	-15.05800	.00524	-.23073	-.03386	.00998	.00104	-.00002	.10994
-15.032	699.610	.18202	.03766	-15.04700	.00524	-.22104	-.03867	.00989	.00115	-.00000	.10798
-15.018	799.490	.04848	.21904	-15.03100	.00773	-.21954	-.03876	.00976	.00117	-.00001	.10834
-15.015	999.390	.14007	1.30110	-15.02700	.02346	-.21843	-.03861	.00966	.00127	-.00000	.10846
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2771/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.507	352.290	-1.33850	-.14151	-10.51200	.00523	-.27030	.03823	.01486	-.00329	.00097	.15279
-10.590	400.050	.32078	-.31705	-10.60500	-.00677	-.17096	-.01761	.00884	.00021	-.00009	.10706
-10.515	449.430	.11394	.13832	-10.53300	.00847	-.15614	-.02354	.00918	.00028	-.00011	.10549
-10.521	499.510	.06426	.19609	-10.53700	.00640	-.14770	-.02929	.00784	.00108	-.00014	.09979
-10.515	599.390	.13256	-.26312	-10.53100	.00143	-.14224	-.03118	.00780	.00119	-.00017	.09935
-10.515	699.450	.15596	.05920	-10.52700	.00524	-.14168	-.03112	.00763	.00129	-.00018	.10069
-10.513	799.350	.06490	-.21221	-10.52500	.00095	-.14060	-.03087	.00778	.00130	-.00018	.10006
-10.512	999.290	.17510	.10758	-10.52500	.00608	-.13959	-.03105	.00776	.00133	-.00019	.10023
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK072) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = .000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2406/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.039	168.880	-.82291	-.19102	-5.03850	.00031	-.12190	.00576	.00477	-.00014	.00015	.10061
-4.992	191.620	-.05894	.14252	-4.99050	.00497	-.12241	.00752	.00426	-.00034	-.00003	.10612
-5.003	241.340	-.02593	-.61614	-5.00470	-.00517	-.09867	.00131	.00499	-.00060	.00008	.10196
-5.003	291.540	.02197	.44086	-5.00530	.00704	-.08458	-.00403	.00370	-.00008	.00003	.09855
-5.006	391.540	.03737	-.20606	-5.01950	-.00040	-.06744	-.01458	.00399	.00024	-.00001	.09217
-5.000	491.380	.02646	-.01450	-5.01540	.00169	-.06553	-.01491	.00411	.00052	-.00003	.09272
-4.999	591.490	.09317	-.03712	-5.01270	.00174	-.06492	-.01487	.00344	.00049	-.00003	.09265
-5.000	691.480	.10966	-.00248	-5.01290	.00212	-.06517	-.01504	.00382	.00042	-.00003	.09282
-5.001	791.370	.08863	-.00952	-5.01360	.00176	-.06472	-.01511	.00385	.00053	-.00004	.09220
-4.999	991.320	.11063	.00119	-5.01240	.00209	-.06424	-.01486	.00358	.00046	-.00004	.09240
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2409/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.005	11.707	.02727	.01692	-.00782	.00274	-.03157	.00359	.00402	.00009	.00008	.09469
.001	41.611	.02209	-.01372	-.01007	.00230	-.02889	.00373	.00411	.00015	.00001	.09420
.000	91.689	-.00415	.00646	-.00616	.00337	-.02700	.00518	.00380	-.00016	-.00004	.09570
.002	141.560	.06893	.01247	.00286	.00379	-.02883	.00905	.00419	-.00038	.00001	.09667
.007	191.410	.07241	.04120	.00790	.00353	-.02444	.01051	.00418	-.00058	-.00004	.09740
-.002	291.450	.15800	.29163	-.01122	.00533	-.00834	.00154	.00307	-.00019	-.00004	.09079
.008	391.310	.02961	-.17094	-.0076[illegible]	.00046	-.00895	.00106	.00340	-.00002	-.00004	.09113
.003	491.390	.11506	-.04151	-.012[illegible]	.00195	-.00794	.00138	.00335	.00015	-.00005	.09066
.002	591.480	.17268	-.04915	-.01109	.00166	-.00820	.00129	.00350	.00022	-.00005	.09029
.006	791.260	.03988	.00932	-.00725	.00277	-.00765	.00099	.00323	.00012	-.00004	.08949
.005	871.280	.09700	-.01582	-.00808	.00223	-.00625	.00119	.00310	.00020	-.00004	.09110
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2412/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
5.065	-60.482	1.12290	-.19307	5.04900	.00052	.03266	.01908	.00362	-.00039	-.00002	.09417
4.993	6.373	.04133	-.02284	4.97880	.00216	.03133	.02186	.00299	-.00041	-.00009	.09431
4.987	41.592	.09862	.06856	4.97820	.00462	.03067	.02314	.00294	-.00051	-.00010	.09386
4.989	91.585	.07765	-.14644	4.98850	.00277	.03298	.02547	.00375	-.00107	-.00005	.09531
4.986	191.420	.07584	-.27609	4.98120	-.00131	.04836	.01889	.00211	-.00056	-.00005	.08916
4.995	291.210	.07042	.15253	4.98180	.00382	.04785	.01826	.00226	-.00043	-.00006	.09065
4.991	391.300	.09289	-.03629	4.97620	.00295	.04672	.01784	.00252	-.00032	-.00006	.09074
4.987	531.390	.11784	-.08352	4.97390	.00171	.04678	.01774	.00197	-.00026	-.00006	.08902
	GRADIENT	.00649	-.00358	.78127	.00034	.00492	.00343	.00047	-.00006	-.00001	.01480

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2764/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.999	625.210	-.04400	.00175	-.00402	.25927	-.06137	.05652	-.00188	-.00227	.00285
-19.944	698.730	-.03700	.00254	.01658	.12343	-.04818	.05149	-.00079	-.00290	.00115
-20.005	799.570	-.01400	.00234	.00384	-.04240	-.01316	.05916	-.00302	-.00227	.00043
-20.010	999.530	-.01300	.00232	.00405	-.04818	-.01120	.06516	-.00314	-.00223	.00036
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2768/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-14.996	474.620	-.03800	.00323	.00249	.20899	-.05295	.05573	.00017	-.00360	.00225
-15.005	499.740	-.03500	.00288	.00145	.14999	-.04605	.05426	-.00121	-.00318	.00145
-14.982	549.250	-.02800	.00271	.00119	.06536	-.03480	.05474	-.00238	-.00289	.00099
-14.994	599.430	-.01700	.00259	-.01283	-.01636	-.01760	.05910	-.00290	-.00258	.00051
-15.015	699.570	-.01300	.00250	-.00311	-.04798	-.01144	.06341	-.00322	-.00242	.00039
-15.013	799.560	-.01200	.00280	.00946	-.04906	-.01100	.06368	-.00279	-.00269	.00043
-15.015	999.410	-.01200	.00284	-.01475	-.04923	-.01105	.06399	-.00261	-.00274	.00044
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2772/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.463	349.130	-.02600	.00359	.00677	.18779	-.03817	.06486	-.00031	-.00376	.00104
-10.517	399.640	-.01800	.00332	.00158	.09554	-.02449	.06090	-.00106	-.00335	.00132
-10.500	449.480	-.01700	.00312	-.00096	.03666	-.02052	.06015	-.00200	-.00311	.00094
-10.498	499.440	-.01600	.00302	.00205	-.00533	-.01732	.06062	-.00240	-.00297	.00060
-10.513	599.540	-.01300	.00280	.00801	-.04727	-.01191	.06144	-.00282	-.00271	.00042
-10.514	699.470	-.01200	.00321	.00342	-.05045	-.01091	.06200	-.00219	-.00308	.00049
-10.512	799.480	-.01300	.00335	.00247	-.05054	-.01083	.06158	-.00196	-.00322	.00050
-10.513	999.330	-.01200	.00330	.00099	-.05041	-.01086	.06194	-.00202	-.00317	.00049
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ORBITER(04RC1) W/ET SEPARATING (SVK073) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.5000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2407/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-4.992	166.670	-.00460	.00032	.00178	.10216	-.01000	.08450	-.00372	-.00033	.00087
-5.006	192.020	-.00290	.00025	.00475	.07329	-.00662	.08558	-.00417	-.00023	.00016
-4.991	241.720	-.00310	.00058	.00409	.06027	-.00620	.09713	-.00310	-.00055	-.00008
-4.994	291.800	-.00820	.00063	.00279	.06191	-.01198	.08972	-.00258	-.00067	.00001
-4.994	391.700	-.01550	.00028	.00246	.01950	-.01790	.07859	-.00363	-.00041	.00024
-4.999	491.590	-.01490	.00033	.00174	-.03497	-.01447	.07698	-.00341	-.00043	.00009
-5.000	591.590	-.01290	.00034	.00155	-.04799	-.01163	.07824	-.00323	-.00041	.00009
-5.000	691.560	-.01290	.00033	.00185	-.04803	-.01162	.07855	-.00345	-.00040	.00009
-4.999	791.440	-.01290	.00035	.00184	-.04774	-.01163	.07843	-.00341	-.00042	.00009
-4.999	991.360	-.01300	.00036	.00145	-.04802	-.01165	.07834	-.00345	-.00043	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2410/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.010	11.545	-.00282	.00066	.00071	-.01957	-.00163	.09190	-.00399	-.00054	.00014
-.025	42.051	.00252	.00064	-.00095	-.00389	.00326	.09450	-.00415	-.00046	.00010
-.016	92.037	.00320	.00048	.00348	.00581	.00348	.08904	-.00432	-.00031	.00005
-.002	141.800	.00140	.00031	.00117	.01215	.00123	.08944	-.00436	-.00018	-.00009
.006	191.790	-.00339	.00066	.00095	.03338	-.00498	.09060	-.00307	-.00058	-.00014
.004	291.610	-.01337	.00031	.00407	.03776	-.01596	.08343	-.00322	-.00041	.00019
.007	391.550	-.01580	.00032	.00261	-.02009	-.01564	.07959	-.00357	-.00042	.00014
.005	491.500	-.01394	.00035	.00241	-.04628	-.01220	.07973	-.00339	-.00041	.00009
.001	591.450	-.01341	.00034	.00257	-.04857	-.01168	.08084	-.00360	-.00040	.00010
.004	791.400	-.01341	.00036	.00196	-.04837	-.01173	.08102	-.00355	-.00042	.00009
.003	871.330	-.01339	.00034	.00228	-.04822	-.01173	.08087	-.00367	-.00040	.00010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2413/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.994	-58.656	-.01250	.00045	.00361	-.06051	-.01066	.08393	-.00446	-.00048	.00006
4.984	6.685	-.00220	.00053	.00060	-.03339	-.00041	.09358	-.00452	-.00043	.00004
4.975	41.855	.00040	.00043	-.00128	-.02500	.00213	.09069	-.00520	-.00029	-.00004
4.986	91.671	-.00040	.00035	.00571	-.00543	.00020	.09017	-.00443	-.00025	-.00003
4.984	191.700	-.00890	.00034	.00122	.02769	-.01110	.09005	-.00373	-.00038	-.00003
4.987	291.360	-.01460	.00030	-.00316	-.00065	-.01592	.08081	-.00338	-.00042	.00009
4.992	531.370	-.01290	.00035	-.00028	-.04836	-.01161	.08107	-.00352	-.00042	.00009
	GRADIENT	-.00033	.00008	.00009	-.00500	-.00006	.01400	-.00068	-.00006	.00001

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK073) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2764/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.999	625.210	200.02000	-.37638	-20.04300	-.00227	-.40570	-.00337	.01532	-.00068	.00036	.13651
-19.944	698.730	199.86000	.86384	-19.98100	.01913	-.38370	-.01004	.01484	-.00073	.00017	.14282
-20.005	799.570	200.02000	.11051	-20.01900	.00618	-.33351	-.03823	.01363	.00041	.00010	.12119
-20.010	999.530	199.96000	.15657	-20.02300	.00638	-.32569	-.04125	.01293	.00063	.00014	.12152
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2768/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-14.996	474.620	200.01000	.17272	-15.03400	.00572	-.28716	-.00769	.01076	.00051	-.00012	.11620
-15.005	499.740	200.03000	-.00179	-15.04000	.00433	-.26710	-.01670	.01134	-.00010	.00007	.12241
-14.982	549.250	199.98000	-.08997	-15.01000	.00390	-.26136	-.01653	.01133	-.00007	.00005	.12417
-14.994	599.430	200.00000	-1.17450	-15.01100	-.01024	-.23918	-.02820	.01089	.00028	.00008	.11822
-15.015	699.570	200.06000	-.36994	-15.02800	-.00061	-.22047	-.03851	.00987	.00103	-.00000	.10759
-15.013	799.560	200.11000	.51235	-15.02500	.01225	-.21866	-.03879	.00951	.00113	-.00002	.10853
-15.015	999.410	199.95000	-1.14220	-15.02700	-.01191	-.21880	-.03882	.00932	.00123	-.00000	.10960
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2772/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.463	349.130	199.95000	.18785	-10.48900	.01036	-.22363	.00958	.01029	-.00103	-.00010	.12777
-10.517	399.640	200.05000	-.05343	-10.53500	.00490	-.17378	-.01629	.00961	.00003	-.00015	.10826
-10.500	449.480	200.04000	-.14723	-10.51700	.00216	-.16763	-.01799	.00937	.00040	-.00009	.10904
-10.498	499.440	200.02000	-.04683	-10.51400	.00506	-.15375	-.02485	.00844	.00060	-.00010	.10581
-10.513	599.540	200.06000	.41476	-10.52600	.01082	-.14213	-.03109	.00802	.00120	-.00018	.09875
-10.514	699.470	200.15000	.10644	-10.52600	.00663	-.14050	-.03111	.00739	.00118	-.00019	.10009
-10.512	799.480	200.17000	.06098	-10.52500	.00583	-.13981	-.03075	.00803	.00125	-.00019	.09942
-10.513	999.330	199.93000	-.06610	-10.52500	.00429	-.13952	-.03096	.00708	.00117	-.00018	.10050
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22).ET SEPARATING FROM ORB (O4RC1) (AVK073) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2407/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-4.992	166.670	200.09000	-.11863	-4.99620	.00210	-.13007	.00872	.00601	-.00123	.00021	.11188
-5.006	192.020	200.12000	.04339	-5.00930	.00500	-.11161	.00211	.00455	-.00068	.00002	.10510
-4.991	241.720	200.08000	.06924	-4.99390	.00467	-.10496	.00434	.00422	-.00045	.00006	.10581
-4.994	291.800	200.06000	.01204	-5.00230	.00341	-.08593	-.00461	.00408	-.00008	.00005	.09811
-4.994	391.700	200.15000	.00746	-5.00970	.00274	-.07056	-.01249	.00398	.00019	.00000	.09434
-4.999	491.590	200.11000	-.00327	-5.01430	.00207	-.06529	-.01510	.00385	.00043	-.00003	.09205
-5.000	591.590	200.19000	-.01820	-5.01270	.00189	-.06462	-.01512	.00353	.00048	-.00004	.09226
-5.000	691.560	200.18000	.00166	-5.01270	.00218	-.06416	-.01492	.00367	.00042	-.00003	.09222
-4.999	791.440	200.22000	.00234	-5.01240	.00219	-.06373	-.01499	.00360	.00043	-.00004	.09264
-4.999	991.360	200.05000	-.02001	-5.01170	.00181	-.06310	-.01479	.00348	.00051	-.00003	.09235
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2410/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.010	11.545	200.15000	-.13492	-.01262	.00138	-.03095	-.00464	.00376	-.00009	.00009	.09507
-.025	42.051	200.11000	-.22436	-.02225	-.00031	-.03569	-.00173	.00428	.00003	.00017	.09682
-.016	92.037	200.08000	.14887	-.01252	.00397	-.03069	.00360	.00394	-.00005	.00003	.09450
-.002	141.800	200.12000	-.15112	-.00100	.00147	-.03186	.01059	.00433	-.00062	-.00001	.09835
.006	191.790	200.05000	-.11287	.00218	.00161	-.02623	.01076	.00372	-.00043	-.00003	.09753
.004	291.610	200.10000	.05013	-.00906	.00438	-.01156	.00310	.00349	-.00039	-.00005	.09309
.007	391.550	200.07000	.00587	-.00919	.00293	-.00898	.00082	.00355	.00002	-.00006	.09075
.005	491.500	200.03000	-.00452	-.00866	.00276	-.00846	.00108	.00297	.00010	-.00005	.09062
.001	591.450	200.05000	.01349	-.01223	.00292	-.00836	.00110	.00307	.00009	-.00005	.09089
.004	791.400	200.01000	-.04837	-.00959	.00232	-.00680	.00124	.00308	.00012	-.00005	.09027
.003	871.330	200.04000	-.00965	-.01062	.00262	-.00679	.00135	.00312	.00012	-.00005	.09129
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2413/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.994	-58.656	200.00000	.03741	4.98140	.00405	.03160	.01407	.00214	-.00025	-.00005	.09244
4.984	6.685	200.02000	-.11973	4.98180	.00113	.02674	.01711	.00336	-.00014	.00002	.09435
4.975	41.855	200.07000	-.17297	4.97550	-.00084	.02753	.02136	.00354	-.00032	-.00000	.09394
4.986	91.671	200.10000	.16621	4.98540	.00606	.03163	.02571	.00387	-.00108	-.00007	.09569
4.984	191.700	200.07000	-.17300	4.97550	.00155	.04550	.01983	.00213	-.00057	-.00005	.08918
4.987	291.360	200.14000	-.41494	4.97190	-.00286	.04752	.01830	.00201	-.00047	-.00006	.09038
4.992	531.370	200.12000	-.20010	4.97940	.00007	.04782	.01784	.00220	-.00009	-.00007	.08872
	GRADIENT	29.92072	-.01791	.74522	.00017	.00400	.00256	.00050	-.00002	.00000	.01411

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK074) (20 APR 77)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1089.6000 IN.	XO	
LREF	= 1290.3000 INCHES	YMRP	= .0000 IN.	YO	
BREF	= 1290.3000 INCHES	ZMRP	= 375.0000 IN.	ZO	
SCALE	= .0125				

PARAMETRIC DATA

ALPHA	= .000	BETA	= .000		
DBETA	= .000	X	= 400.000		
Y	= .000	ELEVON	= .000		
UMBLDR	= .000	RCS	= .000		
GAS	= 1.000				

RUN NO. 2765/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.027	625.010	-.04200	.00207	-.00838	.08543	-.05068	.04413	-.00286	-.00246	.00100
-20.046	700.130	-.01400	.00210	.01321	-.04301	-.01329	.05519	-.00373	-.00205	.00032
-20.032	799.680	-.01300	.00224	.00169	-.04815	-.01131	.06182	-.00348	-.00216	.00034
-20.025	999.560	-.01200	.00255	.00054	-.04825	-.01117	.06415	-.00297	-.00245	.00038
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2769/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.047	475.130	-.02100	.00242	.00002	.05061	-.02585	.05689	-.00313	-.00249	.00078
-15.017	499.590	-.01700	.00221	.02243	.01917	-.02034	.05919	-.00359	-.00223	.00058
-15.021	549.440	-.01700	.00239	.00629	-.02040	-.01778	.06066	-.00343	-.00238	.00043
-15.014	599.560	-.01400	.00241	.02117	-.04170	-.01355	.06252	-.00340	-.00235	.00039
-15.030	699.660	-.01200	.00273	.00113	-.04895	-.01111	.06423	-.00299	-.00263	.00042
-15.012	799.540	-.01200	.00273	.00870	-.04904	-.01112	.06442	-.00280	-.00263	.00042
-15.015	999.380	-.01200	.00295	.00712	-.04952	-.01105	.06347	-.00247	-.00284	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2773/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.537	350.010	-.01700	.00270	-.00006	.08312	-.02300	.06023	-.00260	-.00273	.00116
-10.535	399.670	-.01700	.00248	.00387	.03407	-.02099	.06322	-.00329	-.00250	.00084
-10.512	449.440	-.01700	.00252	.00711	-.00610	-.01803	.06244	-.00326	-.00251	.00056
-10.517	499.430	-.01500	.00279	.00129	-.03496	-.01486	.06131	-.00260	-.00273	.00044
-10.529	599.560	-.01200	.00282	.00509	-.04979	-.01105	.06383	-.00296	-.00271	.00043
-10.515	699.380	-.01200	.00314	.00470	-.05007	-.01100	.06248	-.00230	-.00302	.00048
-10.511	799.320	-.01300	.00328	.00313	-.05027	-.01093	.06186	-.00213	-.00315	.00049
-10.510	999.330	-.01200	.00317	.01501	-.05017	-.01095	.06256	-.00244	-.00305	.00048
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK074) (20 APR 77)

REFERENCE DATA

SP	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
L'	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
[illegible] =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2408/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.025	167.100	-.00100	.00014	.00361	.07900	-.00485	.08649	-.00413	-.00011	-.00015
-4.994	191.340	-.00320	.00064	.00394	.07137	-.00692	.08795	-.00321	-.00061	-.00008
-4.976	241.080	-.00640	.00069	.00391	.07252	-.01285	.09009	-.00241	-.00074	-.00003
-4.994	291.500	-.01360	.00026	-.01390	.05514	-.01782	.08153	-.00327	-.00039	.00033
-5.003	391.450	-.01550	.00031	-.00091	-.01090	-.01644	.07799	-.00315	-.00044	.00018
-5.007	491.590	-.01350	.00034	.00188	-.04543	-.01244	.07826	-.00337	-.00042	.00010
-5.001	591.530	-.01290	.00034	.00201	-.04792	-.01164	.07954	-.00348	-.00041	.00009
-5.002	691.440	-.01290	.00034	.00208	-.04778	-.01164	.07959	-.00331	-.00041	.00009
-5.001	791.360	-.01290	.00035	.00235	-.04805	-.01161	.07965	-.00350	-.00042	.00009
-5.002	991.400	-.01280	.00033	.00170	-.04785	-.01165	.07975	-.00348	-.00040	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2411/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.043	12.619	.01125	.00062	.00242	.02995	.01095	.06987	-.00402	-.00035	-.00009
.008	41.064	.00731	.00051	.00292	.03791	.00630	.08795	-.00395	-.00031	-.00016
.021	90.868	.00157	.00031	.00270	.03119	.00045	.08788	-.00430	-.00019	-.00020
.014	141.110	-.00277	.00075	.00300	.03807	-.00458	.08907	-.00327	-.00067	-.00006
.010	191.290	-.00880	.00054	.00221	.05073	-.01175	.09087	-.00290	-.00057	-.00004
.002	291.300	-.01540	.00032	.00059	.00872	-.01677	.08090	-.00356	-.00043	.00024
-.005	391.550	-.01513	.00037	.00041	-.03701	-.01414	.07913	-.00335	-.00045	.00009
.003	491.420	-.01324	.00034	.00254	-.04834	-.01161	.08052	-.00352	-.00040	.00009
.003	591.450	-.01319	.00034	.00252	-.04825	-.01164	.08089	-.00357	-.00040	.00009
.005	791.290	-.01314	.00037	.00269	-.04829	-.01162	.08034	-.00349	-.00043	.00009
.002	871.310	-.01311	.00035	.00247	-.04823	-.01162	.08091	-.00356	-.00041	.00009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2414/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.940	-57.088	.00630	.00094	.00255	-.02145	.00856	.09115	-.00463	-.00061	-.00008
5.034	5.720	.00200	.00041	.00320	.00135	.00250	.08835	-.00430	-.00028	-.00010
5.007	41.161	.00030	.00023	.00015	.00400	.00049	.08919	-.00471	-.00013	-.00016
5.017	91.090	-.00350	.00078	.00424	.02023	-.00457	.08975	-.00296	-.00072	-.00006
4.992	191.240	-.01240	.00029	-.00108	.02793	-.01507	.09303	-.00361	-.00039	.00013
4.937	291.340	-.01490	.00033	-.00149	-.02246	-.01523	.07995	-.00347	-.00044	.00011
4.993	391.400	-.01320	.00036	.00064	-.04707	-.01209	.08024	-.00349	-.00043	.00009
4.993	531.260	-.01260	.00033	-.00215	-.04841	-.01151	.08115	-.00354	-.00040	.00009
	GRADIENT	.00035	.00007	.00056	.00024	.00044	.01545	-.00075	-.00005	-.00002

V41B-D9A (IA22).ET SEPARATING FROM ORB (O4RC1) (AVK074) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2765/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.027	625.010	400.07000	-.74361	-20.06900	-.00631	-.38666	-.01418	.01578	-.00114	.00044	.13906
-20.046	700.130	400.09000	.91207	-20.06000	.01531	-.35733	-.02103	.01423	-.00028	.00013	.13444
-20.032	799.680	400.12000	.00696	-20.04500	.00392	-.34272	-.03286	.01374	.00011	.00011	.12570
-20.025	999.560	400.16000	.01165	-20.03700	.00308	-.32586	-.04150	.01282	.00058	.00014	.12093
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2769/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.047	475.130	400.15000	-.21125	-15.06800	.00243	-.27695	-.01675	.01112	.00079	.00001	.11766
-15.017	499.590	400.09000	1.35420	-15.03400	.02463	-.26681	-.01990	.01100	.00016	.00007	.12082
-15.021	549.440	400.08000	.44535	-15.03800	.00868	-.25262	-.02438	.01071	.00050	.00003	.11502
-15.014	599.550	400.09000	1.26900	-15.02800	.02358	-.24723	-.02507	.01042	.00064	.00006	.11710
-15.030	699.660	400.13000	.03897	-15.04200	.00396	-.22648	-.03525	.00932	.00114	.00002	.10781
-15.012	799.540	400.14000	.41768	-15.02400	.01143	-.21892	-.03875	.00939	.00115	-.00001	.10780
-15.015	999.380	400.13000	.37209	-15.02700	.01007	-.21808	-.03867	.00932	.00116	-.00001	.10868
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2773/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.537	350.010	399.94000	-.19486	-10.55400	.00264	-.21146	-.00038	.01230	-.00124	.00032	.12449
-10.535	399.670	400.11000	.32144	-10.55200	.00636	-.17695	-.01692	.00979	.00038	-.00015	.10635
-10.512	449.440	400.01000	.31351	-10.52900	.00953	-.16901	-.01899	.00975	.00024	-.00008	.10902
-10.517	499.430	400.02000	.00132	-10.53200	.00408	-.16079	-.02205	.00887	.00076	-.00012	.10614
-10.529	599.560	400.08000	.30195	-10.54100	.00791	-.14469	-.02972	.00767	.00109	-.00015	.09785
-10.515	699.380	400.13000	.15893	-10.52700	.00784	-.14104	-.03112	.00763	.00125	-.00018	.09916
-10.511	799.320	400.00000	.14350	-10.52400	.00540	-.14016	-.03079	.00785	.00119	-.00019	.09852
-10.510	999.330	400.18000	.90359	-10.52200	.01818	-.14013	-.03093	.00714	.00114	-.00019	.10041
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK074) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	.000	BETA =	.000
DBETA =	.000	X =	400.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2408/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.025	167.100	400.00000	.27696	-5.02650	.00375	-.11660	-.00370	.00445	-.00017	.00009	.10301
-4.994	191.340	400.02000	.11029	-4.99720	.00458	-.11211	-.00167	.00467	-.00027	.00011	.10326
-4.976	241.080	400.10000	.02987	-4.96450	.00460	-.11213	.00532	.00444	-.00056	.00003	.10850
-4.994	291.500	400.11000	-1.12640	-5.00790	-.01365	-.09042	-.00469	.00397	-.00004	.00003	.09814
-5.003	391.450	399.99000	-.20740	-5.01880	-.00060	-.07661	-.01027	.00408	.00022	-.00000	.09609
-5.007	491.590	400.04000	-.01655	-5.02060	.00222	-.06639	-.01517	.00383	.00034	-.00002	.09190
-5.001	591.530	400.11000	.00540	-5.01450	.00235	-.06492	-.01519	.00363	.00038	-.00003	.09199
-5.002	691.440	400.17000	.00720	-5.01450	.00242	-.06441	-.01507	.00362	.00036	-.00004	.09237
-5.001	791.350	400.16000	.01944	-5.01340	.00270	-.06416	-.01490	.00312	.00034	-.00003	.09211
-5.002	991.400	400.15000	.00005	-5.01520	.00203	-.06393	-.01508	.00361	.00049	-.00004	.09242
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2411/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.043	12.619	400.10000	-.00461	-.03206	.00304	-.03726	-.01237	.00605	-.00021	.00010	.09422
.008	41.054	400.09000	.10486	.01553	.00344	-.03786	-.00483	.00403	.00017	.00009	.09618
.021	90.868	400.07000	-.01524	.02256	.00301	-.03371	.00373	.00396	-.00011	.00003	.09682
.014	141.110	400.17000	.01181	.01164	.00375	-.03652	.01107	.00359	-.00029	.00001	.09759
.010	191.290	400.01000	-.05707	.00109	.00275	-.02950	.01050	.00389	-.00044	.00003	.09742
.002	291.300	400.05000	-.17729	-.01319	.00091	-.01593	.00495	.00427	-.00042	-.00007	.09400
-.005	391.550	400.09000	-.09453	-.02030	.00078	-.00948	.00059	.00311	.00003	-.00004	.09034
.003	491.420	400.07000	.02679	-.01045	.00288	-.00854	.00092	.00330	.00013	-.00005	.08967
.003	591.450	400.14000	-.00134	-.01026	.00286	-.00818	.00108	.00293	.00008	-.00004	.08977
.005	791.290	400.14000	.01834	-.00803	.00305	-.00711	.00141	.00294	.00007	-.00004	.08967
.002	871.310	400.16000	.00007	-.01074	.00282	-.00674	.00133	.00278	.00007	-.00004	.08943
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2414/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.940	-57.088	400.14000	.05816	4.94630	.00339	.02460	.00228	.00364	.00006	.00006	.09333
5.034	5.720	400.15000	.01908	5.03630	.00351	.02423	.01635	.00285	-.00022	.00001	.09641
5.007	41.161	400.13000	-.20149	5.00740	.00038	.02742	.02120	.00282	-.00039	-.00000	.09539
5.017	91.090	400.18000	.05988	5.01330	.00511	.02790	.02739	.00369	-.00102	-.00005	.09828
4.992	191.240	400.12000	-.21455	4.97930	-.00078	.04291	.02091	.00227	-.00070	-.00006	.09136
4.987	291.340	400.12000	-.16915	4.97160	-.00115	.04682	.01811	.00234	-.00047	-.00006	.09040
4.983	391.400	400.19000	-.17509	4.97020	.00100	.04660	.01743	.00171	-.00032	-.00006	.08942
4.993	531.260	400.19000	-.31482	4.97990	-.00192	.04801	.01787	.00212	-.00028	-.00006	.08879
	GRADIENT	69.95629	.00334	.88047	.00063	.00424	.00286	.00050	-.00004	.00000	.01685

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK075) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2766/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.015	625.190	-.01500	.00241	-.00327	-.04071	-.01379	.06046	-.00314	-.00236	.00039
-20.007	699.740	-.01300	.00232	.00218	-.04877	-.01115	.06239	-.00341	-.00224	.00035
-19.988	799.320	-.01300	.00234	.00539	-.04856	-.01113	.06311	-.00331	-.00225	.00035
-20.011	999.470	-.01300	.00258	.00868	-.04864	-.01115	.06409	-.00281	-.00248	.00039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2770/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.017	474.770	-.01800	.00311	.00793	-.01353	-.01920	.05757	-.00211	-.00308	.00054
-15.014	499.660	-.01700	.00299	.00248	-.02348	-.01698	.05854	-.00230	-.00295	.00046
-15.013	549.720	-.01300	.00266	.00695	-.04584	-.01237	.06224	-.00284	-.00259	.00042
-15.011	599.750	-.01200	.00275	.00554	-.04979	-.01108	.06371	-.00279	-.00266	.00042
-15.003	699.450	-.01200	.00298	-.00269	-.04991	-.01101	.06339	-.00257	-.00288	.00045
-15.011	799.520	-.01300	.00301	-.00045	-.04960	-.01095	.06309	-.00266	-.00289	.00045
-15.012	999.420	-.01200	.00300	.00294	-.04947	-.01097	.06322	-.00256	-.00299	.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2774/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.503	349.640	-.01700	.00328	.00304	.02709	-.02045	.05993	-.00182	-.00326	.00093
-10.507	399.610	-.01700	.00311	.00194	-.01042	-.01756	.05975	-.00220	-.00306	.00060
-10.511	449.580	-.01500	.00282	.00455	-.03766	-.01443	.06176	-.00285	-.00276	.00044
-10.503	499.590	-.01300	.00259	.00191	-.04798	-.01169	.06261	-.00332	-.00250	.00040
-10.505	599.490	-.01200	.00311	.00374	-.05035	-.01095	.06259	-.00247	-.00299	.00047
-10.512	699.400	-.01200	.00315	.00360	-.05057	-.01090	.06261	-.00251	-.00302	.00047
-10.511	799.470	-.01200	.00314	.00305	-.05014	-.01093	.06261	-.00250	-.00301	.00047
-10.513	999.300	-.01200	.00303	.00281	-.05043	-.01097	.06321	-.00267	-.00292	.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK075) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = .000 BETA = .000
DBETA = .000 X = 600.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2766/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.015	625.190	600.12000	-.46169	-20.03000	-.00086	-.36633	-.02631	.01486	-.00039	.00016	.13005
-20.007	699.740	600.11000	.15968	-20.02000	.00450	-.36456	-.02332	.01451	-.00037	.00013	.13038
-19.998	799.320	600.00000	.04751	-20.00100	.00773	-.34852	-.02791	.01479	-.00101	.00025	.13336
-20.011	999.470	599.96000	.45951	-20.02400	.01126	-.32489	-.04182	.01271	.00054	.00013	.12194
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2770/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.017	474.770	600.08000	.47510	-15.03500	.01103	-.25476	-.02827	.01037	.00081	-.00005	.11568
-15.014	499.650	600.16000	.00034	-15.03100	.00547	-.25327	-.02701	.01117	.00023	.00004	.11814
-15.013	549.720	600.19000	.35645	-15.02300	.00932	-.25103	-.02674	.01080	.00028	.00002	.11695
-15.011	599.750	600.10000	.52898	-15.02300	.01239	-.24718	-.02632	.01014	.00052	.00002	.11560
-15.003	699.450	600.12000	-.39331	-15.01500	.00030	-.23312	-.03101	.01924	.00038	.00003	.11508
-15.011	799.520	600.23000	-.18136	-15.02400	.00255	-.21630	-.03852	.00926	.00100	-.00000	.10796
-15.012	899.420	600.19000	.05166	-15.02400	.00595	-.21864	-.03890	.00937	.00115	-.00002	.10936
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2774/ 0 RN/L = .85 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.503	349.640	600.13000	.01510	-10.52000	.00633	-.18831	-.01559	.01027	-.00909	.00001	.11455
-10.507	399.610	600.16000	.02928	-10.52400	.00505	-.17077	-.02196	.00989	.00059	-.00016	.10826
-10.511	449.580	600.13000	.19287	-10.52600	.00738	-.16259	-.02336	.00899	.00053	-.00013	.10551
-10.503	499.590	600.13000	-.05461	-10.51600	.00450	-.16095	-.02297	.00852	.00073	-.00012	.10591
-10.505	599.490	600.18000	.09392	-10.51700	.00685	-.14969	-.02670	.00845	.00081	-.00013	.10348
-10.512	699.400	600.20000	.12299	-10.52400	.00675	-.14015	-.03096	.00762	.00110	-.00018	.09925
-10.511	799.470	600.23000	.10017	-10.52300	.00619	-.13933	-.03099	.00734	.00122	-.00019	.10132
-10.513	999.300	600.25000	.04501	-10.52500	.00584	-.13985	-.03110	.00743	.00110	-.00019	.10161
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK076) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMPP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA	=	5.000	BETA	=	.000
DBETA	=	.000	X	=	.000
Y	=	.000	ELEVON	=	.000
UMBLDR	=	.000	RCS	=	.000
GAS	=	1.000			

RUN NO. 2735/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.011	624.590	4.98500	.00176	.00754	.45375	-.03911	.08937	-.00239	-.00193	.00138
-20.029	699.490	4.97100	.00131	-.00178	.32461	-.04762	.06739	-.00348	-.00163	.00172
-20.023	799.540	4.98000	.00158	.00165	.13818	-.02841	.05851	-.00320	-.00168	.00052
-20.026	999.690	4.99500	.00172	.00180	.03336	-.00773	.06538	-.00343	-.00158	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2739/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.565	503.140	4.99400	.00195	-.00754	.34570	-.02403	.09334	-.00313	-.00193	.00120
-15.542	549.750	4.99300	.00224	-.00024	.27912	-.02594	.07378	-.00258	-.00224	-.00005
-15.519	599.530	4.99300	.00224	-.00311	.24536	-.02280	.06972	-.00190	-.00230	.00052
-15.515	699.420	4.99300	.00185	-.00062	.11828	-.01901	.06053	-.00333	-.00183	.00053
-15.515	799.450	4.99200	.00199	-.00169	.04792	-.01094	.06107	-.00312	-.00187	.00017
-15.513	999.450	4.99500	.00192	.00133	.03797	-.00761	.06468	-.00333	-.00177	.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2447/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.000	327.400	5.01280	.00025	.00191	.25234	.00150	.08408	-.00225	-.00009	.00085
-9.982	349.710	5.01120	.00070	.00437	.26659	-.00101	.08189	-.00343	-.00050	.00064
-10.050	399.830	5.00470	.00058	.00140	.18144	-.00433	.07285	-.00310	-.00046	-.00017
-10.026	449.880	5.00270	.00048	.00299	.17004	-.00541	.08285	-.00342	-.00036	-.00033
-9.995	499.540	4.99890	.00039	-.00127	.16426	-.01366	.08385	-.00327	-.00039	-.00038
-9.993	599.300	4.99390	.00030	.00166	.13624	-.01894	.07101	-.00331	-.00039	.00016
-10.003	699.590	4.99150	.00039	.00225	.09076	-.01180	.06958	-.00331	-.00040	.00001
-10.002	799.530	4.99460	.00041	.00233	.04149	-.00751	.07112	-.00310	-.00037	-.00001
-9.999	999.390	4.99480	.00043	.00223	.04138	-.00750	.07221	-.00316	-.00038	-.00001
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK076) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2450/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-4.988	175.050	5.00266	.00078	.00106	.09793	-.00177	.08467	-.00334	-.00062	.00064
-5.001	199.780	5.00517	.00081	.00111	.09511	.00113	.08311	-.00330	-.00061	.00026
-4.994	249.430	5.00857	.00069	.00121	.09954	.00467	.07737	-.00375	-.00046	-.00005
-5.001	299.560	5.01063	.00074	-.00006	.10023	.00695	.07925	-.00335	-.00048	-.00010
-5.007	399.590	5.00187	.00045	-.00199	.14164	-.00482	.08382	-.00342	-.00035	-.00031
-4.994	499.250	4.99214	.00035	.00193	.15295	-.01622	.07602	-.00326	-.00040	.00006
-4.998	599.330	4.99156	.00038	.00232	.07955	-.01310	.07093	-.00306	-.00041	.00006
-5.001	699.480	4.99412	.00041	.00079	.04428	-.00840	.07144	-.00301	-.00038	-.00003
-5.001	799.380	4.99486	.00044	.00115	.04172	-.00746	.07333	-.00319	-.00040	-.00002
-5.002	999.420	4.99489	.00044	.00205	.04170	-.00743	.07347	-.00317	-.00040	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2453/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.067	17.747	4.99141	.00046	-.00010	.02335	-.01044	.06468	-.00266	-.00046	.00010
-.007	49.465	4.99040	.00057	.00248	.02965	-.01184	.06958	-.00269	-.00058	.00017
-.013	99.583	4.99413	.00077	.00476	.02621	-.00747	.07656	-.00293	-.00071	.00009
-.017	149.790	5.00427	.00072	.00182	.03746	.00314	.06030	-.00370	-.00052	-.00016
-.014	199.550	5.00932	.00074	.00783	.05485	.00781	.07886	-.00368	-.00048	-.00017
-.021	299.500	5.00617	.00054	.00071	.10099	.00197	.08257	-.00359	-.00035	-.00022
.001	399.190	4.99507	.00041	.00187	.14299	-.01138	.08337	-.00359	-.00039	-.00019
-.008	499.200	4.99095	.00035	.00157	.10349	-.01497	.07317	-.00326	-.00040	.00006
-.014	599.350	4.99300	.00041	.00520	.05133	-.01003	.07224	-.00304	-.00041	-.00002
-.009	799.310	4.99492	.00044	.00165	.04169	-.00743	.07408	-.00322	-.00040	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2456/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.983	-50.363	4.98900	.00039	-.00532	.00199	-.01316	.05922	-.00278	-.00044	-.00006
4.994	14.353	4.99350	.00072	-.00253	-.00379	-.01204	.06997	-.00198	-.00074	.00016
4.994	49.601	4.99310	.00081	-.00106	.00282	-.00756	.07602	-.00264	-.00076	.00014
4.981	99.595	5.00170	.00084	.00270	.01808	.00132	.08047	-.00368	-.00066	-.00007
4.974	199.670	5.00800	.00084	.00365	.06363	.00593	.08027	-.00307	-.00060	-.00002
4.995	299.190	5.00100	.00048	.00198	.11190	-.00430	.08342	-.00352	-.00037	-.00019
4.999	399.030	4.99270	.00037	.00174	.12925	-.01439	.07658	-.00341	-.00039	-.00015
4.986	479.160	4.99180	.00038	.00565	.07782	-.01275	.07248	-.00319	-.00040	-.00003
	GRADIENT	.34756	.00005	-.00018	-.00026	-.00084	.00488	-.00014	-.00005	.00001

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK076) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2735/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.011	624.590	-.07174	.39738	-15.02600	.00930	-.25079	-.02132	.01017	.00008	.00000	.11726
-20.029	699.490	.11333	-.17307	-15.05900	-.00047	-.22292	-.03927	.00903	.00085	-.00001	.10697
-20.023	799.540	-.01755	.03373	-15.04300	.00324	-.22158	-.03988	.00946	.00107	-.00003	.10893
-20.026	999.690	.05172	.07250	-15.03100	.00352	-.22052	-.03898	.00924	.00129	.00000	.10993
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2739/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.565	503.140	-1.26910	-.55391	-10.57100	-.00560	-.19343	-.00279	.00847	-.00025	.00006	.11408
-15.542	549.750	.17050	-.07926	-10.55300	.00200	-.15354	-.02567	.00733	.00054	-.00011	.10250
-15.518	593.530	.17252	-.30956	-10.53300	-.00087	-.14310	-.03182	.00699	.00082	-.00017	.10008
-15.515	699.420	-.00234	-.13550	-10.52700	.00123	-.14355	-.03195	.00735	.00102	-.00017	.10134
-15.515	799.450	.05106	-.17562	-10.52300	.00030	-.14394	-.03124	.00763	.00119	-.00019	.10154
-15.513	999.450	.16985	-.03482	-10.51800	.00325	-.14293	-.03093	.00741	.00130	-.00018	.10124
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2447/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.000	327.400	-.95213	-.09728	-4.98710	.00216	-.18956	.03530	.00885	-.00149	.00045	.11573
-9.982	349.710	-.07416	.05262	-4.97070	.00505	-.17189	.04133	.00937	-.00205	.00076	.13032
-10.050	399.830	.01697	.16529	-5.04530	.00193	-.09444	.00268	.00576	-.00014	.00015	.10155
-10.026	449.890	.02886	.03902	-5.02330	.00345	-.06606	-.01343	.00499	.00023	-.00002	.08973
-9.995	499.540	-.00154	-.22089	-4.99950	-.00088	-.06294	-.01521	.00457	.00019	-.00007	.09104
-9.993	599.300	-.02195	-.01017	-5.00390	.00196	-.06418	-.01518	.00446	.00026	-.00006	.09433
-10.003	699.580	.03948	.02542	-5.01140	.00262	-.06523	-.01519	.00515	.00037	-.00007	.09494
-10.002	799.530	-.00591	.02817	-5.00740	.00275	-.06522	-.01516	.00518	.00059	-.00007	.09375
-9.999	999.390	-.05328	.03021	-5.00430	.00266	-.06462	-.01533	.00491	.00066	-.00006	.09308
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK076) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2450/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-4.988	175.050	-.22713	.05207	.01446	.00184	-.05512	.01732	.00585	-.00009	-.00001	.09754
-5.001	199.780	.00914	-.07920	.00397	.00192	-.04458	.01405	.00563	-.00033	-.00005	.09855
-4.994	249.430	-.05827	-.06626	.01447	.00190	-.04062	.01609	.00596	-.00029	-.00001	.09916
-5.001	299.560	.07664	-.23687	.00983	.00067	-.02916	.01288	.00564	-.00037	-.00004	.09727
-5.007	399.590	.11188	-.27168	-.00563	-.00155	-.00613	.00143	.00439	.00005	-.00008	.08866
-4.994	499.250	.07859	-.02812	-.00236	.00229	-.00666	.00147	.00427	-.00009	-.00008	.09064
-4.998	599.330	.05282	.02805	-.00634	.00270	-.00753	.00134	.00450	-.00004	-.00007	.09132
-5.001	699.480	-.02949	-.03844	-.00668	.00120	-.00744	.00119	.00483	.00028	-.00008	.09073
-5.001	799.360	-.03555	-.12793	-.00594	.00159	-.00700	.00143	.00451	.00025	-.00008	.09013
-5.002	999.420	.12105	-.05714	-.00711	.00249	-.00576	.00089	.00426	.00027	-.00008	.08940
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2453/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.067	17.747	.72664	-.06586	5.05850	.00036	.02017	.02458	.00627	-.00028	.00002	.09374
-.007	49.489	.00518	-.00546	4.99350	.00305	.01764	.02713	.00532	-.00054	.00002	.09564
-.013	99.583	-.02909	.15339	4.98060	.00554	.02463	.02518	.00507	-.00059	-.00005	.09357
-.017	149.790	.04686	-.05708	4.98730	.00254	.02424	.02715	.00440	-.00056	-.00012	.09534
-.014	199.550	.00152	.34348	4.99500	.00858	.03150	.02629	.00466	-.00102	-.00003	.09496
-.021	299.500	.08289	-.02946	4.99550	.00125	.04971	.01803	.00333	-.00033	-.00009	.08703
.001	399.190	.07361	-.07317	4.99580	.00227	.04921	.01836	.00318	-.00042	-.00008	.08837
-.008	499.200	.11921	.02267	4.98340	.00193	.04955	.01864	.00327	-.00032	-.00009	.09024
-.014	599.350	.20941	.25911	4.97930	.00562	.04853	.01815	.00307	-.00041	-.00008	.08975
-.009	799.310	.17255	.07416	4.98570	.00209	.04946	.01814	.00432	.00011	-.00009	.09045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2456/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.983	-50.363	-.01909	-.46752	9.97110	-.00493	.09286	.03697	.00354	-.00063	-.00008	.09506
4.994	14.353	.01698	-.29320	9.98230	-.00181	.09640	.03838	.00385	-.00095	-.00007	.09441
4.984	49.601	.04384	-.27664	9.97710	-.00025	.09714	.03658	.00424	-.00118	-.00002	.09521
4.991	99.595	.04815	-.01771	9.98280	.00354	.09949	.03953	.00430	-.00130	-.00002	.09508
4.974	199.670	.04548	.21814	9.98190	.00450	.11366	.03343	.00281	-.00071	-.00008	.09109
4.996	299.190	.04177	-.01786	9.99720	.00246	.11375	.03370	.00231	-.00063	-.00008	.09178
4.999	399.030	.13781	-.02122	9.99140	.00211	.11432	.03419	.00233	-.00063	-.00009	.09353
4.986	479.160	.17019	.24648	9.97790	.00603	.11389	.03439	.00226	-.00070	-.00009	.09281
	GRADIENT	.00118	-.02043	.69549	-.00013	.00672	.00267	.00027	-.00007	-.00000	.00658

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK077) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	.000	RCS =	.000		
GAS =	1.000				

RUN NO. 2736/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.950	623.990	4.96000	.00133	.01162	.37498	-.06282	.05771	-.00250	-.00184	.00240
-19.990	699.350	4.97600	.00146	.00200	.17101	-.03505	.05764	-.00348	-.00164	.00095
-20.014	799.600	4.99100	.00192	.00084	.05192	-.01197	.06199	-.00299	-.00182	.00016
-20.015	999.510	4.99400	.00187	.00396	.03841	-.00768	.06657	-.00293	-.00172	.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2740/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.469	499.200	4.97400	.00213	.00317	.33175	-.04570	.06640	-.00186	-.00239	.00098
-15.486	549.390	4.98100	.00175	.00713	.22935	-.03291	.06099	-.00317	-.00189	.00134
-15.498	599.480	4.98500	.00167	.01181	.15136	-.02348	.06272	-.00349	-.00171	.00089
-15.511	699.580	4.99100	.00232	.00772	.05391	-.01323	.05891	-.00247	-.00221	.00030
-15.514	799.570	4.99500	.00197	.00378	.03763	-.00755	.06349	-.00324	-.00181	.00018
-15.512	999.370	4.99500	.00206	.00269	.03746	-.00757	.06392	-.00297	-.00190	.00020
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2448/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.012	325.520	4.99140	.00026	-.00668	.28571	-.02356	.07477	-.00215	-.00039	.00069
-9.921	349.330	4.98970	.00019	.00558	.28778	-.02689	.07492	-.00275	-.00036	.00023
-9.972	399.470	4.99340	.00037	-.00098	.19160	-.01124	.08243	-.00310	-.00035	-.00036
-9.994	449.680	4.99350	.00034	.00330	.19405	-.01668	.08232	-.00333	-.00039	-.00020
-9.999	499.680	4.99340	.00027	.00718	.16543	-.01971	.07337	-.00316	-.00037	.00013
-10.000	599.570	4.99130	.00035	.00488	.07553	-.01334	.06956	-.00327	-.00038	.00005
-10.000	699.560	4.99420	.00040	.00955	.04354	-.00825	.06929	-.00310	-.00037	-.00002
-10.002	799.650	4.99460	.00044	.00315	.04123	-.00748	.07246	-.00318	-.00040	-.00002
-9.992	999.460	4.99490	.00044	-.01175	.04123	-.00750	.07238	-.00321	-.00039	-.00001
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK077) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2451/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.000	174.780	5.00647	.00069	.00053	.12805	.00087	.07704	-.00352	-.00050	.00021
-5.004	199.930	5.00801	.00069	-.00097	.11636	.00312	.07680	-.00321	-.00048	-.00002
-5.001	249.800	5.01027	.00072	.00127	.11139	.00591	.07948	-.00316	-.00047	-.00011
-4.986	299.590	5.00599	.00048	-.00179	.13435	.00004	.08328	-.00337	-.00032	-.00030
-5.001	399.830	4.99436	.00042	.00529	.16805	-.01445	.08138	-.00286	-.00045	-.00018
-4.996	499.530	4.99062	.00031	.00108	.10359	-.01530	.07197	-.00331	-.00036	.00008
-5.000	599.450	4.99306	.00040	.00476	.05027	-.00995	.07150	-.00317	-.00039	-.00004
-5.002	699.530	4.99491	.00043	.00171	.04170	-.00739	.07314	-.00303	-.00039	-.00001
-5.002	799.530	4.99498	.00044	.00268	.04210	-.00742	.07361	-.00300	-.00040	-.00002
-5.001	999.310	4.99486	.00044	.00212	.04157	-.00742	.07353	-.00318	-.00040	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2454/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.001	19.504	4.99542	.00092	-.00315	.02934	-.00298	.07740	-.00285	-.00080	-.00007
-.018	49.794	5.00378	.00082	.00477	.04053	.00237	.08079	-.00350	-.00062	-.00002
-.024	99.908	5.00891	.00085	-.00037	.05318	.00747	.07993	-.00371	-.00058	.00007
-.006	149.730	5.01072	.00080	-.00068	.06386	.00869	.07860	-.00347	-.00051	-.00015
-.009	199.580	5.00938	.00067	-.00107	.09724	.00617	.08165	-.00331	-.00043	-.00019
-.018	299.780	4.99941	.00043	.00200	.14086	-.00748	.09482	-.00336	-.00037	-.00034
-.008	399.480	4.99138	.00036	-.00065	.12754	-.01576	.07442	-.00320	-.00040	.00006
-.006	499.380	4.99219	.00040	.00443	.06452	-.01167	.07190	-.00305	-.00041	.00000
-.008	599.380	4.99470	.00044	.00105	.04222	-.00768	.07287	-.00327	-.00040	-.00002
-.011	799.380	4.99498	.00045	.00531	.04156	-.00740	.07402	-.00317	-.00040	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2457/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.993	-50.684	4.98930	.00095	.00185	-.00160	-.01149	.06877	-.00233	-.00094	.00006
4.985	14.583	5.00060	.00088	-.00044	.01677	.00010	.07971	-.00329	-.00071	-.00004
4.983	49.672	5.00600	.00086	.00011	.02998	.00537	.07958	-.00403	-.00061	.00001
4.993	99.530	5.00830	.00088	-.00074	.04791	.00730	.07839	-.00331	-.00061	-.00005
4.975	199.710	5.00430	.00048	.00042	.10022	-.00008	.08277	-.00372	-.00032	-.00022
4.983	299.530	4.99480	.00042	.00268	.13904	-.01257	.08172	-.00339	-.00042	-.00022
4.986	399.360	4.99150	.00035	.00539	.08814	-.01361	.07257	-.00310	-.00039	-.00002
4.985	479.330	4.99310	.00042	.00007	.05130	-.00994	.07242	-.00311	-.00041	-.00002
	GRADIENT	.34291	.00006	-.00003	.00115	.00001	.00547	-.00023	-.00005	-.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK077) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2736/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.950	623.990	199.82000	.46134	-14.99000	.01296	-.28860	-.00217	.01074	-.00098	.00021	.12751
-19.990	699.350	200.01000	-.06771	-15.01400	.00345	-.23643	-.03206	.00901	.00084	-.00007	.11005
-20.014	799.600	200.13000	-.09035	-15.02300	.00276	-.22073	-.03931	.00695	.00114	-.00001	.10973
-20.015	999.510	199.89000	.11555	-15.02100	.00582	-.21982	-.03386	.00905	.00110	.00000	.10994
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2740/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.469	499.200	199.83000	.03575	-10.49500	.00530	-.21122	.00759	.00905	-.00064	.00002	.12180
-15.486	549.390	199.93000	.26816	-10.50500	.00989	-.16758	-.01658	.00804	-.00004	-.00004	.11112
-15.498	599.480	199.69000	.57669	-10.51300	.01348	-.15042	-.02777	.00730	.00069	-.00014	.10142
-15.511	699.580	200.12000	.39381	-10.52000	.01004	-.14344	-.03219	.00754	.00112	-.00019	.10071
-15.514	799.570	200.04000	.14016	-10.51900	.00575	-.14368	-.03115	.00755	.00127	-.00019	.10144
-15.512	999.370	199.91000	.07329	-10.51700	.00495	-.14198	-.03078	.00757	.00125	-.00019	.10075
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2448/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.012	325.520	200.13000	-.51160	-5.02060	-.00642	-.18487	.04448	.00970	-.00249	.00056	.12801
-9.921	349.330	199.89000	-.16132	-4.93200	.00577	-.18152	.04983	.00973	-.00312	.00086	.14154
-9.972	399.470	200.02000	-.16282	-4.97350	-.00061	-.10392	.00982	.00474	.00016	.00001	.10638
-9.994	449.680	200.00000	.06349	-5.00070	.00364	-.07227	-.00952	.00490	-.00000	.00001	.09419
-9.999	499.690	199.99000	.33106	-5.00950	.00745	-.06482	-.01456	.00438	.00006	-.00004	.09104
-10.000	599.570	200.01000	.11935	-5.00870	.00523	-.06488	-.01550	.00449	.00028	-.00007	.09324
-10.002	699.560	199.89000	.50353	-5.00580	.01005	-.06536	-.01544	.00495	.00044	-.00006	.09380
-9.992	799.650	200.03000	.06598	-5.00740	.00359	-.06488	-.01520	.00480	.00059	-.00007	.09293
	999.460	199.99000	-.96547	-4.99690	-.01131	-.06386	-.01520	.00528	.00059	-.00007	.09284
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK077) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2451/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.000	174.780	200.00000	-.18710	.00657	.00122	-.06170	.01790	.00558	-.00042	.00001	.10276
-5.004	199.930	200.05000	-.24851	.00421	-.00028	-.05494	.01739	.00550	-.00037	-.00006	.10153
-5.001	249.800	200.05000	-.02946	.00967	.00198	-.05158	.02163	.00594	-.00024	.00002	.10238
-4.986	299.590	199.99000	-.31501	.01978	-.00131	-.03487	.01726	.00545	-.00032	-.00003	.10095
-5.001	399.830	199.95000	.21943	-.00653	.00572	-.00584	.00154	.00422	-.00012	-.00007	.08936
-4.996	499.530	200.07000	-.09349	-.00548	.00139	-.00647	.00151	.00428	-.00013	-.00008	.09168
-5.000	599.450	200.06000	.17428	-.00734	.00516	-.00761	.00093	.00450	.00002	-.00008	.09123
-5.002	699.530	200.13000	-.07611	-.00759	.00214	-.00779	.00087	.00511	.00020	-.00008	.09034
-5.002	799.530	200.10000	-.00184	-.00662	.00312	-.00726	.00119	.00472	.00026	-.00009	.09002
-5.001	999.310	199.93000	-.03002	-.00624	.00256	-.00675	.00097	.00476	.00038	-.00008	.09058
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2454/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.001	19.504	200.07000	-.38004	4.99760	-.00223	.01885	.01610	.00443	-.00002	.00008	.09347
-.018	49.794	200.04000	.22794	4.99540	.00559	.01568	.01786	.00555	-.00003	.00007	.09482
-.024	99.908	200.05000	-.03442	4.99470	.00048	.01915	.02223	.00571	-.00011	.00004	.09293
-.006	149.730	200.05000	-.21050	5.00520	.00012	.01818	.02925	.00497	-.00068	-.00010	.09648
-.009	199.580	200.03000	-.28903	5.00060	-.00040	.02773	.02824	.00531	-.00110	-.00004	.09688
-.018	259.780	200.07000	.00502	4.99160	.00243	.04909	.01839	.00371	-.00044	-.00009	.08829
-.008	399.480	200.10000	-.14977	4.99340	-.00030	.04943	.01857	.00319	-.00045	-.00009	.08954
-.006	499.380	200.05000	.10902	4.99620	.00482	.04862	.01834	.00321	-.00044	-.00009	.09060
-.008	599.380	200.21000	-.12301	4.99700	.00150	.04754	.01776	.00347	-.00021	-.00009	.09020
-.011	799.380	200.02000	.23567	4.99430	.00576	.04875	.01781	.00354	-.00004	-.00009	.08957
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2457/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.993	-50.684	199.99000	-.02628	9.98220	.00281	.08725	.03363	.00182	-.00043	-.00008	.09473
4.985	14.583	200.11000	-.12664	9.98610	.00044	.08505	.03537	.00362	-.00064	-.00002	.09582
4.983	49.672	200.04000	-.01484	9.98030	.00096	.08660	.03857	.00339	-.00074	-.00006	.09553
4.993	99.530	200.09000	-.31545	10.00100	.00013	.09368	.04100	.00482	-.00146	-.00001	.09682
4.975	199.710	200.05000	-.14942	9.97950	.00099	.11309	.03378	.00268	-.00072	-.00008	.09151
4.983	299.530	200.08000	-.03084	9.97760	.00310	.11428	.03433	.00187	-.00088	-.00008	.09223
4.986	399.360	200.05000	.11738	9.97710	.00575	.11400	.03443	.00179	-.00086	-.00008	.09354
4.985	479.330	199.98000	-.13133	9.97780	.00048	.11373	.03426	.00245	-.00071	-.00009	.09278
	GRADIENT	13.72214	-.00858	.68478	.00003	.00583	.00243	.00025	-.00004	-.00000	.00657

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK07B) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2737/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-20.006	624.540	4.96800	.00156	.00207	.19926	-.04548	.04710	-.00338	-.00186	.00110
-20.093	700.550	4.96900	.00187	-.00168	.06598	-.01524	.05956	-.00319	-.00181	.00022
-20.035	799.710	4.99500	.00171	.00224	.03808	-.00760	.06508	-.00367	-.00156	.00016
-20.013	999.470	4.99400	.00175	.00204	.03930	-.00767	.05625	-.00344	-.00161	.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2741/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.518	499.650	4.96500	.00184	.00456	.17781	-.02559	.05166	-.00336	-.00187	.00113
-15.545	549.850	4.98700	.00202	.00247	.12251	-.02022	.05679	-.00338	-.00200	.00071
-15.549	599.910	4.99900	.00207	-.00078	.07733	-.01561	.05749	-.00322	-.00200	.00033
-15.528	699.630	4.99400	.00212	.00182	.03966	-.00801	.06054	-.00316	-.00195	.00018
-15.511	799.340	4.99400	.00198	.00991	.03783	-.00769	.06336	-.00336	-.00183	.00017
-15.511	999.330	4.99400	.00211	-.00033	.03738	-.00757	.06334	-.00306	-.00195	.00019
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2449/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.037	325.540	5.00000	.00042	.00218	.19336	-.01020	.07585	-.00263	-.00039	-.00043
-9.982	349.250	4.99720	.00024	.00026	.20074	-.01305	.07481	-.00328	-.00025	-.00013
-10.018	399.650	4.99990	.00026	-.00389	.19348	-.01912	.07446	-.00290	-.00035	.00018
-10.012	449.750	4.99800	.00025	.01028	.14901	-.02302	.07146	-.00311	-.00035	.00018
-10.019	499.770	4.99070	.00030	.00134	.10339	-.01563	.06952	-.00295	-.00036	.00012
-10.010	599.690	4.99270	.00036	.00976	.04971	-.01004	.06994	-.00301	-.00036	-.00005
-10.001	699.510	4.99450	.00040	.00036	.04184	-.00751	.07177	-.00305	-.00036	-.00002
-9.995	799.450	4.99490	.00037	.00507	.04153	-.00749	.07236	-.00287	-.00034	-.00002
-9.998	999.400	4.99490	.00040	.00305	.04163	-.00752	.07269	-.00315	-.00037	-.00001
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK078) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2452/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-5.010	174.960	5.00956	.00065	-.00010	.13076	.00409	.08015	-.00291	-.00043	-.00011
-4.994	199.290	5.00873	.00053	-.00151	.12971	.00327	.08123	-.00335	-.00033	-.00029
-4.973	249.070	5.00397	.00049	.00086	.15396	-.00319	.08428	-.00358	-.00036	-.00038
-4.996	299.370	4.99775	.00033	.00333	.17257	-.01097	.08391	-.00327	-.00035	-.00017
-5.020	399.510	4.99027	.00031	.00490	.12842	-.01702	.07341	-.00319	-.00037	.00006
-5.005	499.440	4.99177	.00038	.00474	.06237	-.01195	.07127	-.00320	-.00039	-.00000
-5.003	599.620	4.99487	.00042	-.00600	.04203	-.00749	.07275	-.00314	-.00038	-.00001
-5.003	699.420	4.99500	.00042	-.00176	.04236	-.00743	.07372	-.00296	-.00039	-.00002
-5.002	799.400	4.99492	.00042	.00133	.04154	-.00742	.07391	-.00320	-.00038	-.00002
-5.001	999.320	4.99495	.00042	.00173	.04183	-.00740	.07392	-.00297	-.00038	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2455/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.048	20.739	5.01516	.00093	.00432	.07269	.01337	.07910	-.00358	-.00058	-.00007
.010	49.203	5.01391	.00089	.00228	.08514	.01127	.07959	-.00368	-.00056	.00002
.019	98.862	5.01057	.00079	.00021	.08321	.00783	.07935	-.00348	-.00052	-.00006
.015	149.130	5.00877	.00062	.00320	.10139	.00479	.08270	-.00384	-.00039	-.00023
-.004	199.270	5.00346	.00057	.00236	.13298	-.00261	.08492	-.00342	-.00044	-.00034
-.015	299.450	4.99328	.00037	.00698	.14891	-.01471	.07681	-.00316	-.00041	-.00000
-.006	399.290	4.99177	.00039	.00161	.08266	-.01310	.07213	-.00315	-.00041	.00000
-.012	499.410	4.99393	.00045	.00037	.04613	-.00877	.07248	-.00304	-.00042	-.00004
-.016	599.450	4.99494	.00043	.00104	.04162	-.00742	.07405	-.00325	-.00039	-.00002
-.007	799.270	4.99498	.00044	.00004	.04166	-.00742	.07421	-.00329	-.00040	-.00002
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2458/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.949	-49.238	5.00770	.00095	-.00224	.02821	.00736	.07934	-.00382	-.00068	-.00006
5.009	13.896	5.00910	.00076	.00312	.05370	.00720	.07788	-.00365	-.00050	-.00009
5.004	49.130	5.00920	.00062	.00524	.05942	.00744	.07906	-.00442	-.00036	-.00017
5.002	99.127	5.00720	.00063	.00209	.08326	.00432	.08185	-.00352	-.00041	-.00019
4.993	199.130	4.99810	.00047	.00036	.13812	-.00680	.08352	-.00352	-.00042	-.00027
4.996	299.150	4.99130	.00037	.00145	.11027	-.01490	.07362	-.00332	-.00041	-.00001
4.984	399.370	4.99250	.00041	-.00619	.05569	-.01077	.07232	-.00326	-.00041	-.00001
4.985	479.350	4.99470	.00043	.00549	.04231	-.00769	.07317	-.00309	-.00040	-.00002
	GRADIENT	.36047	.00005	.00022	.00386	.00052	.00560	-.00026	-.00004	-.00001

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK078) (04 MAY 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1328.7200 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 416.4000 IN. ZT
SCALE = .0125

PARAMETRIC DATA

ALPHA = 5.000 BETA = .000
DBETA = .000 X = 400.000
Y = .000 ELEVON = .000
UMBLDR = .000 RCS = .000
GAS = 1.000

RUN NO. 2737/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-20.006	624.540	399.96000	.03068	-15.03800	.00363	-.31140	.00738	.01256	-.00135	.00020	.13558
-20.093	700.550	400.30000	.00844	-15.10400	.00019	-.24286	-.03010	.00972	.00053	.00001	.11595
-20.035	799.710	400.01000	.05137	-15.04000	.00395	-.22193	-.03976	.00909	.00100	.00002	.10919
-20.013	999.470	400.02000	.07222	-15.01900	.00379	-.22081	-.03875	.00959	.00115	.00001	.10913
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2741/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.518	499.650	400.04000	.17901	-10.53300	.00640	-.22776	.01326	.01037	-.00096	.00003	.12869
-15.545	549.850	400.19000	.02106	-10.55800	.00449	-.19051	-.00531	.01045	-.00102	.00012	.12261
-15.549	599.910	400.20000	-.00019	-10.56000	.00128	-.15633	-.02538	.00836	.00065	-.00011	.10445
-15.528	699.630	400.09000	.08375	-10.53400	.00393	-.14373	-.03241	.00780	.00124	-.00019	.10055
-15.511	799.340	400.14000	.53404	-10.51700	.01179	-.14228	-.03120	.00746	.00122	-.00017	.10163
-15.511	999.330	400.12000	-.13229	-10.51700	.00178	-.14054	-.03106	.00740	.00123	-.00018	.10079
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2449/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.037	325.540	400.26000	.20533	-5.03700	.00260	-.15780	.02671	.00681	-.00123	.00018	.11701
-9.932	349.250	400.02000	-.21051	-4.98510	.00050	-.15449	.03105	.00742	-.00148	.00037	.12471
-10.018	399.650	400.02000	-.25426	-5.02710	-.00363	-.11638	.01361	.00500	-.00021	.00011	.10878
-10.012	449.750	400.13000	.41125	-5.02400	.01053	-.08843	-.00105	.00544	-.00019	.00007	.10032
-10.019	499.770	400.07000	-.03819	-5.02830	.00164	-.07087	-.01145	.00493	.00017	.00000	.09432
-10.010	599.690	399.99000	.56563	-5.01730	.01013	-.06549	-.01612	.00457	.00036	-.00006	.09485
-10.001	699.510	400.03000	-.02772	-5.00650	.00076	-.06526	-.01569	.00527	.00052	-.00007	.09423
-9.986	799.450	400.12000	.16583	-5.00070	.00544	-.06436	-.01535	.00515	.00059	-.00007	.09262
-9.998	999.400	400.08000	.04503	-5.00350	.00345	-.06364	-.01519	.00498	.00056	-.00006	.09332
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (04RC1) (AVK078) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000		
DBETA =	.000	X =	400.000		
Y =	.000	ELEVON =	.000		
UMBLCR =	.000	RCS =	.000		
GAS =	1.000				

RUN NO. 2452/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-5.010	174.960	399.87000	-.13936	-.00044	.00055	-.06410	.01525	.00717	-.00028	-.00001	.10073
-4.994	199.290	400.03000	-.31127	.01473	-.00059	-.06151	.01851	.00680	-.00050	-.00006	.10238
-4.973	249.070	400.04000	-.16253	.03098	.00134	-.06323	.02709	.00652	-.00057	-.00001	.10625
-4.996	299.370	400.00000	.11777	.00175	.00371	-.04492	.02271	.00542	-.00046	.00001	.10341
-5.020	399.510	400.15000	.24959	-.02943	.00521	-.00956	.00353	.00515	-.00032	-.00007	.08990
-5.005	499.440	400.14000	.25950	-.01283	.00512	-.00691	.00131	.00444	-.00012	-.00007	.09044
-5.003	599.620	400.06000	-.53297	-.00843	-.00559	-.00878	.00069	.00474	.00018	-.00008	.09070
-5.003	699.420	400.09000	-.24274	-.00800	-.00134	-.00814	.00075	.00522	.00029	-.00008	.09076
-5.002	799.400	400.07000	-.09706	-.00708	.00176	-.00753	.00106	.00492	.00030	-.00009	.08873
-5.001	999.320	400.11000	-.02044	-.00525	.00215	-.00642	.00120	.00480	.00035	-.00007	.09000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2455/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.048	20.739	400.12000	.20463	4.96740	.00525	.01206	.00717	.00429	.00013	.00004	.09413
.010	49.203	400.07000	-.04511	5.02360	.00317	.01074	.01425	.00509	-.00001	.00009	.09720
.019	98.852	400.10000	-.09199	5.02940	.00100	.01570	.02299	.00578	-.00002	-.00001	.09495
.015	149.130	400.11000	-.04762	5.02350	.00382	.01165	.03254	.00540	-.00072	-.00005	.09796
-.004	199.270	399.92000	-.05063	4.99990	.00293	.02015	.03230	.00574	-.00113	-.00001	.09993
-.015	299.450	400.10000	.46438	4.97820	.00735	.04725	.01972	.00352	-.00052	-.00008	.08740
-.006	399.290	400.14000	-.05989	4.98500	.00200	.04932	.01876	.00323	-.00045	-.00009	.09066
-.012	499.410	400.11000	-.11445	4.98200	.00082	.04839	.01824	.00327	-.00045	-.00009	.09053
-.016	599.450	400.13000	.01293	4.97870	.00147	.04765	.01764	.00334	-.00018	-.00009	.08993
-.007	799.270	400.17000	-.21220	4.98310	.00048	.04912	.01799	.00369	.00003	-.00010	.08894
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2459/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.949	-49.238	400.00000	-.26427	9.95690	-.00129	.07844	.02329	.00058	.00041	.00003	.09532
5.009	13.896	400.15000	-.02915	10.01800	.00388	.07913	.03483	.00317	-.00044	-.00001	.09794
5.004	49.130	400.22000	.23330	10.01300	.00696	.08114	.04059	.00356	-.00064	-.00009	.09881
5.002	99.127	400.13000	-.06928	10.00900	.00272	.08807	.04313	.00496	-.00146	.00001	.09767
4.993	199.130	400.05000	-.01777	9.99100	.00083	.11208	.03530	.00275	-.00072	-.00007	.09206
4.996	299.150	400.14000	-.15438	9.98730	.00182	.11503	.03479	.00216	-.00095	-.00009	.09132
4.984	399.370	400.00000	-.54339	9.97520	-.00578	.11346	.03431	.00198	-.00077	-.00008	.09328
4.985	479.350	399.98000	.23989	9.97980	.00593	.11319	.03404	.00252	-.00065	-.00008	.09294
	GRADIENT	28.79606	-.00210	.72093	.00028	.00569	.00251	.00023	-.00003	-.00000	.00705

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (SVK079) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2738/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-19.980	624.340	4.98900	.00187	.00468	.06266	-.01499	.05919	-.00298	-.00181	.00019
-19.990	699.470	4.99500	.00205	.00552	.03813	-.00772	.06343	-.00239	-.00189	.00018
-20.018	799.680	4.99490	.00169	.00376	.03775	-.00758	.06576	-.00325	-.00174	.00018
-20.014	999.500	4.99400	.00179	-.00227	.03818	-.00760	.06599	-.00344	-.00164	.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2742/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-15.506	499.630	4.99300	.00221	.01966	.09702	-.01740	.05729	-.00259	-.00216	.00052
-15.491	549.440	4.99000	.00249	.00599	.05947	-.01362	.05691	-.00218	-.00239	.00031
-15.495	599.310	4.99400	.00222	.01068	.04231	-.00927	.06041	-.00262	-.00208	.00019
-15.508	699.670	4.99400	.00224	.00235	.03724	-.00752	.06222	-.00269	-.00207	.00021
-15.512	799.530	4.99500	.00227	.00824	.03714	-.00750	.06248	-.00268	-.00210	.00022
-15.511	999.380	4.99500	.00224	.00684	.03713	-.00748	.06247	-.00270	-.00208	.00022
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK079) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2738/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-19.980	624.340	599.98000	.07636	-14.99100	.00556	-.28770	-.00496	.01243	-.00095	.00017	.13507
-19.990	699.470	599.97000	.13131	-14.99500	.00767	-.25021	-.02419	.01031	.00036	.00004	.12043
-20.018	799.680	600.01000	.22466	-15.02400	.00565	-.22233	-.03957	.00935	.00100	.00001	.10816
-20.014	999.500	599.93000	-.32716	-15.02030	-.00049	-.21997	-.03655	.00831	.00100	.00000	.10959
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK079) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	5.000	BETA =	.000
DBETA =	.000	X =	600.000
Y =	.000	ELEVON =	.000
UMBLDR =	.000	RCS =	.000
GAS =	1.000		

RUN NO. 2742/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-15.506	499.630	600.10000	1.21740	-10.51700	.02188	-.20110	-.00383	.01010	-.00028	-.00009	.11655
-15.491	549.440	600.02000	.23780	-10.50100	.00948	-.18119	-.01069	.00377	-.00006	-.00010	.11614
-15.495	599.310	600.02000	.51427	-10.50100	.01290	-.16085	-.02141	.00899	.00043	-.00010	.10895
-15.508	699.670	600.11000	.02804	-10.51400	.00459	-.14251	-.03225	.00770	.00120	-.00019	.10075
-15.512	799.530	600.10000	.42695	-10.51700	.01051	-.14231	-.03165	.00717	.00113	-.00018	.10121
-15.511	999.380	600.05000	-.07345	-10.51600	.00308	-.13992	-.03094	.00714	.00116	-.00019	.10147
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2606/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-.004	99.595	.07047	.44988	.00761	.23035	.01841	-.00608	.00025	.00058	.00357	.00000
.023	149.020	.06554	-.13662	.00129	.22258	.01271	-.00733	.00065	.00019	-.00254	.00000
.023	198.960	.09551	-.24347	-.00167	.19662	.00753	-.00718	.00081	-.00004	-.00774	.00000
.031	298.680	.10092	-.18823	-.00161	.19066	.00267	-.00618	.00076	.00007	-.00606	.00000
.035	398.770	.09540	-.30653	-.00008	.17127	-.00175	-.00597	.00072	.00009	-.00737	.00000
-.016	499.400	.24153	.16651	.00379	.15473	.00052	-.00587	.00069	.00017	-.00883	.00000
-.041	599.870	.11700	.11458	.00170	.14330	.00262	-.00597	.00069	.00017	-.00789	.00000
-.006	699.310	.15865	.13944	.00298	.14323	.00263	-.00609	.00070	.00018	-.00776	.00000
-.002	799.350	.17798	-.11911	.00086	.14296	.00265	-.00584	.00069	.00016	-.00764	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (RVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2607/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	HM
4.951	-48.951	.29358	-.09622	-.00176	.14402	.00127	-.00625	.00073	.00032	.00973	.00000
4.972	15.323	.07042	-.02864	.00408	.18871	.00827	-.00619	.00022	.00038	.01135	.00000
4.995	49.413	.13481	.15012	.00356	.19227	.01335	-.00559	.00025	.00016	.00246	.00000
5.012	99.051	.15791	-.06951	.00191	.18874	.01383	-.00619	.00047	.00039	-.00330	.00000
5.030	198.450	.32556	-.11026	-.00022	.17379	.00824	-.00604	.00073	-.00001	-.00610	.00000
5.028	298.720	.24732	.05127	.00326	.17991	-.00042	-.00580	.00069	.00022	-.00461	.00000
4.980	399.400	.16365	.36356	.00488	.15740	-.00079	-.00572	.00067	.00014	-.00749	.00000
4.979	599.490	.22966	-.09036	.00040	.14156	.00257	-.00577	.00068	.00016	-.00626	.00000
	GRADIENT	.00460	-.00187	.00027	.01232	.00054	-.00040	.00001	.00002	.00074	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2606/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-.004	99.895	-4.96880	-.00092	.00761	-.10343	.02938	.04759	.00132	-.00069	.00063
.023	149.020	-4.97429	-.00141	.00129	-.11012	.02364	.04133	.00005	-.00029	.00023
.023	198.960	-4.98014	-.00166	-.00167	-.13710	.01649	.03627	.00022	-.00013	.00000
.031	298.680	-4.98479	-.00169	-.00161	-.14299	.01353	.03795	.00121	-.00018	.00012
.035	398.770	-4.98969	-.00172	-.00008	-.16220	.00921	.03661	.00142	-.00022	.00014
-.016	499.400	-4.98837	-.00165	.00379	-.17840	.01157	.03511	.00152	-.00025	.00021
-.041	599.870	-4.98704	-.00163	.00170	-.18999	.01357	.03606	.00142	-.00024	.00022
-.006	699.310	-4.98703	-.00164	.00298	-.19004	.01358	.03619	.00130	-.00024	.00022
-.002	799.350	-4.98700	-.00163	.00086	-.18993	.01359	.03626	.00153	-.00025	.00021
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2607/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.951	-48.951	-4.98927	-.00168	-.00176	-.18767	.01216	.05347	.00110	-.00021	.00037
4.972	15.323	-4.97994	-.00103	.00408	-.14395	.01920	.05522	.00119	-.00072	.00042
4.995	49.413	-4.97512	-.00100	.00356	-.14016	.02428	.04631	.00168	-.00069	.00021
5.012	99.061	-4.97472	-.00122	.0019'	-.14348	.02474	.04051	.00117	-.00047	.00043
5.030	198.450	-4.98051	-.00159	-.0002:	-.15853	.01916	.03773	.00133	-.00021	.00003
5.028	298.720	-4.96814	-.00166	.00326	-.15231	.01050	.03920	.00156	-.00025	.00026
4.980	399.400	-4.98946	-.00166	.00'88	-.17497	.01013	.03634	.00164	-.00027	.00019
4.979	599.490	-4.98710	-.00163	.00040	-.18998	.01347	.03747	.00158	-.00025	.00020
	GRADIENT	-.32500	-.00007	.00027	-.00939	.00125	.00360	.00008	-.00005	.00003

V418-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN.	XO	
LREF =	1290.3000 INCHES	YMRP =	.0000 IN.	YO	
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2606/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-.004	99.595	.07047	.44988	-.05597	-.05206	441.82000	.00000	.00000	661.23000	.00000	.00000
.023	149.020	.06554	-.13662	-.03371	-.05504	440.40000	.00000	.00000	659.09000	.00000	.00000
.023	198.960	.09551	-.24347	-.05968	-.05943	441.74000	.00000	.00000	661.10000	.00000	.00000
.031	298.680	.10092	-.18823	-.04185	-.04167	441.65000	.00000	.00000	660.97000	.00000	.00000
.035	398.770	.09540	-.30653	-.03173	-.01113	441.41000	.00000	.00000	660.61000	.00000	.00000
-.016	499.400	.24153	.16651	-.04316	-.04913	440.96000	.00000	.00000	659.93000	.00000	.00000
-.041	599.870	.11700	.11458	-.03210	-.04458	441.18000	.00000	.00000	660.26000	.00000	.00000
-.006	699.310	.15865	.13944	-.02817	-.04584	441.15000	.00000	.00000	660.22000	.00000	.00000
-.002	799.350	.17798	-.11911	-.02592	-.04857	440.65000	.00000	.00000	659.47000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (TVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2607/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.951	-48.951	.29358	-.09622	-.01873	-.04451	439.05000	.00000	.00000	657.08000	.00000	.00000
4.972	15.323	.07042	-.02854	-.02505	-.04666	440.34000	.00000	.00000	659.01000	.00000	.00000
4.995	49.413	.13481	.15012	-.03283	-.05105	440.04000	.00000	.00000	658.55000	.00000	.00000
5.012	99.051	.15791	-.06961	-.01313	.00578	439.75000	.00000	.00000	658.13000	.00000	.00000
5.030	198.450	.32556	-.11026	-.03875	-.05742	439.88000	.00000	.00000	658.32000	.00000	.00000
5.028	298.720	.24732	.05127	-.02350	-.03091	439.75000	.00000	.00000	658.12000	.00000	.00000
4.980	399.400	.16365	.36356	-.02333	-.02790	439.96000	.00000	.00000	658.44000	.00000	.00000
4.979	599.490	.22936	-.09036	-.02695	-.04560	438.86000	.00000	.00000	656.79000	.00000	.00000
	GRADIENT	.00460	-.00187	-.00163	-.00305	28.73719	.00000	.00000	43.00790	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2606/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-.004	99.595	978.29000	978.29000	81.00000	978.29000	978.06000	67.00000	78.00000	10.47300	99.39000
.023	149.020	978.53000	978.53000	81.00000	978.53000	978.06000	67.00000	78.00000	10.01000	99.39000
.023	198.960	978.59000	978.59000	81.00000	978.59000	978.06000	67.00000	78.00000	10.21100	99.39000
.031	298.690	978.68000	978.68000	81.00000	978.68000	978.06000	67.00000	78.00000	10.94400	99.39000
.035	398.770	978.84000	978.84000	81.00000	978.84000	978.06000	67.00000	78.00000	11.05600	99.39000
-.016	499.400	978.80000	978.80000	81.00000	978.80000	978.06000	67.00000	78.00000	10.96500	99.39000
-.041	599.870	978.81000	978.81000	81.00000	978.81000	978.06000	67.00000	78.00000	9.63540	99.39000
-.006	699.310	978.75000	978.75000	81.00000	978.75000	978.06000	67.00000	78.00000	7.87380	99.39000
-.002	799.350	978.61000	978.61000	81.00000	978.61000	978.06000	67.00000	78.00000	6.24370	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK080) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2607/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.951	-48.951	978.45000	978.45000	80.00000	978.45000	978.21999	66.00000	78.00000	2.81190	99.39000
4.972	15.323	978.41000	978.41000	80.00000	978.41000	978.21999	66.00000	78.00000	2.13300	99.39000
4.995	49.413	978.22000	978.22000	80.00000	978.22000	978.21999	66.00000	78.00000	1.63650	99.39000
5.012	99.061	978.56000	978.55000	80.00000	978.56000	978.21999	66.00000	78.00000	3.16130	99.39000
5.030	198.450	978.36000	978.36000	80.00000	978.36000	978.21999	66.00000	78.00000	5.27460	99.39000
5.028	298.720	978.55000	978.55000	80.00000	978.55000	978.21999	66.00000	78.00000	6.37660	99.39000
4.980	399.400	978.53000	978.53000	80.00000	978.53000	978.21999	66.00000	78.00000	7.21010	99.39000
4.979	599.490	978.50000	978.50000	80.00000	978.50000	978.21999	66.00000	78.00000	6.65660	99.39000
	GRADIENT	63.85238	63.85238	5.22091	63.85238	63.83998	4.30725	5.09039	.13920	6.48633

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK080) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2606/ 0 RN/L = .86 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-.004	99.595	.07047	.44988	-4.97270	.00669	-.13727	-.01776	.00475	.00052	.00019	.08900
.023	149.020	.06554	-.13662	-4.95120	-.00011	-.13579	-.01086	.00561	.00033	.00023	.09235
.023	198.960	.09551	-.24347	-4.95690	-.00333	-.13574	-.00291	.00471	.00058	.00025	.09696
.031	298.680	.10092	-.18823	-4.95350	-.00330	-.14132	.01224	.00468	.00058	.00022	.10425
.035	398.770	.09540	-.30653	-4.95480	-.00180	-.13885	.02195	.00658	-.00047	.00027	.11298
-.016	499.400	.24153	.16651	-5.00440	.00214	-.10215	.00848	.00547	-.00028	.00038	.10601
-.041	599.870	.11700	.11458	-5.02760	.00007	-.06097	-.01522	.00384	.00064	.00005	.08837
-.006	699.310	.15865	.13944	-4.99350	.00134	-.05990	-.01556	.00381	.00077	.00003	.09140
-.002	799.350	.17798	-.11911	-4.98850	-.00077	-.06055	-.01546	.00384	.00075	.00002	.09375
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK080) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	90.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2607/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.951	-48.951	.29358	-.09522	-.03707	-.00344	-.02123	-.01157	-.00118	.00164	.00030	.08612
4.972	15.323	.07042	-.02664	-.00754	.00306	-.05811	-.00870	.00569	.00049	.00020	.09731
4.995	49.413	.13481	.15012	.01958	.00257	-.06625	-.00205	.00553	.00047	.00015	.09069
5.012	99.061	.15791	-.06961	.03698	.00069	-.07208	.00859	.00481	.00015	.00016	.09551
5.030	198.450	.32556	-.11026	.04939	-.00181	-.07257	.02368	.00402	.00026	.00019	.10167
5.028	298.720	.24732	.05127	.03956	.00159	-.06578	.03010	.00534	-.00028	.00023	.10691
4.980	399.400	.15355	.36356	-.00916	.00323	-.02893	.01447	.00425	.00034	.00006	.09564
4.979	599.490	.22905	-.09036	-.00760	-.00123	-.00324	.00118	.00306	.00046	.00003	.08972
	GRADIENT	.00460	-.00187	-.00049	.00020	-.00379	-.00057	.00037	.00003	.00001	.00570

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK081) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000		
DBETA =	.000	X =	200.000		
Y =	.000	ELEVON =	.000		
UMBLDR =	90.000	RCS =	1.000		
GAS =	1.000				

RUN NO. 2586/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-10.000	399.930	200.03000	.44517	.00703	.28561	-.01681	-.00525	.00070	.00017	.00098	.00000
-9.983	449.600	199.99000	.12301	.00402	.23064	-.01513	-.00558	.00092	.00007	-.00322	.00000
-9.978	499.270	200.06000	.00689	.00351	.19341	-.01100	-.00598	.00088	.00004	-.00529	.00000
-9.950	598.910	199.92000	.35969	.00855	.15654	-.00079	-.00512	.00078	.00005	-.00564	.00000
-9.950	699.640	199.91000	.03165	.00439	.14320	.00157	-.00598	.00080	.00015	-.00505	.00000
-10.007	799.310	200.12000	.25415	.00587	.14015	.00217	-.00579	.00085	.00010	-.00465	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (RVK08I) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2588/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
-4.994	239.600	200.05000	-.27096	-.00312	.26183	.00203	-.00698	.00103	.00036	-.00300	.00000
-4.998	249.620	200.10000	.02305	.00221	.25745	.00066	-.00687	.00104	.00022	-.00285	.00000
-4.986	299.190	200.14000	-.02402	.00124	.23155	-.00443	-.00594	.00085	.00014	-.00259	.00000
-4.959	398.750	200.05000	.04623	.00468	.18320	-.00482	-.00504	.00084	.00008	-.00376	.00000
-4.951	498.720	200.04000	.03327	.00480	.15530	-.00110	-.00511	.00083	.00005	-.00610	.00000
-4.955	598.690	200.02000	.19859	.00568	.14164	.00175	-.00608	.00085	.00015	-.00511	.00000
-5.014	699.480	200.13000	.03785	.00177	.13862	.00226	-.00597	.00089	.00012	-.00477	.00000
-5.051	800.110	200.25000	.14529	.00072	.13882	.00225	-.00588	.00087	.00012	-.00485	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2590/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
.002	99.523	200.13000	.44749	.00746	.23572	.02072	-.00651	.00062	.00066	.00011	.00000
.023	148.640	200.19000	-.07843	.00155	.21336	.00881	-.00593	.00093	.00036	-.00360	.00000
.023	199.060	200.15000	.00556	.00185	.19743	.00448	-.00700	.00102	-.00005	-.00451	.00000
.042	298.530	200.14000	.00879	.00345	.18593	-.00091	-.00586	.00085	.00019	-.00175	.00000
.037	398.640	200.10000	.02041	.00427	.15708	-.00181	-.00514	.00085	.00004	-.00485	.00000
.021	498.930	200.09000	.85161	.01472	.14453	.00116	-.00595	.00085	.00019	-.00517	.00000
-.020	599.490	200.21000	.07680	.00192	.13704	.00238	-.00618	.00088	.00014	-.00455	.00000
-.029	699.790	200.24000	.19715	.00254	.13753	.00239	-.00593	.00087	.00013	-.00473	.00000
-.001	799.310	200.21000	.22603	.00518	.13711	.00239	-.00620	.00088	.00013	-.00470	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2592/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	DBETA	CNR	CLMR	CYR	CYNR	CBLR	CAR	WM
4.985	-50.544	200.20000	.26588	.00627	.16670	.01213	-.00704	.00003	.00062	.01121	.00000
4.983	15.121	200.08000	-.10605	-.00023	.20593	.02069	-.00600	.00039	.00016	.00656	.00000
5.005	48.975	200.17000	.16686	.00491	.20555	.01650	-.00544	.00064	.00051	.00201	.00000
5.020	98.809	200.17000	-.15005	.00184	.18239	.00978	-.00593	.00092	.00014	-.00382	.00000
5.058	198.570	200.12000	-.82294	-.01005	.17886	.00429	-.00502	.00100	-.00006	-.00191	.00000
5.029	298.550	200.25000	-.06703	-.00001	.16500	-.00160	-.00610	.00091	.00012	-.00353	.00000
5.022	398.820	200.32000	.08556	.00489	.14797	.00016	-.00516	.00092	.00019	-.00508	.00000
4.958	599.650	200.27000	.26233	.00530	.13667	.00242	-.00620	.00092	.00014	-.00410	.00000
	GRADIENT	13.23193	-.00701	-.00002	.01368	.00137	-.00040	.00003	.00001	.00043	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK081) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = 90.000 RCS = 1.000
GAS = 1.000

RUN NO. 2586/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-10.000	399.930	-4.99800	-.00189	.00703	-.04391	-.00598	.04444	.00205	-.00023	.00022
-9.993	449.600	-4.99910	-.00200	.00402	-.09991	-.00427	.04037	.00174	-.00011	.00012
-9.978	499.270	-4.99680	-.00201	.00351	-.13703	-.00014	.03829	.00135	-.00006	.00009
-9.960	598.910	-4.99340	-.00177	.00855	-.17391	.01006	.03794	.00120	-.00016	.00010
-9.950	698.640	-4.98780	-.00177	.00439	-.18702	.01242	.03850	.00134	-.00013	.00019
-10.007	799.310	-4.98800	-.00181	.00587	-.19021	.01302	.03892	.00153	-.00009	.00014
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2588/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
-4.994	239.600	-4.98190	-.00197	-.00312	-.06745	.01285	.04043	.00031	.00010	.00041
-4.998	249.620	-4.98340	-.00201	.00221	-.07154	.01146	.04054	.00042	.00011	.00026
-4.986	299.190	-4.98930	-.00189	.00124	-.09762	.00639	.04082	.00136	-.00008	.00019
-4.959	398.750	-4.99190	-.00189	.00488	-.14614	.00600	.03988	.00126	-.00009	.00013
-4.961	498.720	-4.98980	-.00183	.00480	-.17411	.00972	.03735	.00119	-.00010	.00009
-4.965	598.890	-4.99790	-.00182	.00588	-.18767	.01257	.03832	.00121	-.00008	.00020
-5.014	699.480	-4.98720	-.00186	.00177	-.19054	.01308	.03854	.00142	-.00004	.00017
-5.051	800.110	-4.98710	-.00184	.00072	-.19032	.01306	.03856	.00141	-.00006	.00017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2590/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
.002	99.523	-4.99594	-.00129	.00746	-.09239	.03150	.04339	.00076	-.00030	.00070
.023	148.840	-4.99791	-.00179	.00155	-.11510	.01960	.03971	.00045	.00000	.00040
.023	199.060	-4.99266	-.00195	.00185	-.13018	.01525	.03869	.00026	.00010	-.00000
.042	298.530	-4.99608	-.00186	.00345	-.14006	.00994	.04138	.00139	-.00007	.00024
.037	398.640	-4.99032	-.00187	.00427	-.17040	.00695	.03834	.00112	-.00007	.00008
.021	498.930	-4.98819	-.00184	.01472	-.18291	.01192	.03901	.00131	-.00007	.00023
-.020	599.490	-4.98741	-.00185	.00192	-.18956	.01311	.03852	.00106	-.00004	.00018
-.029	699.790	-4.98736	-.00184	.00254	-.18996	.01315	.03846	.00133	-.00006	.00018
-.001	799.310	-4.98741	-.00185	.00518	-.19033	.01315	.03849	.00106	-.00005	.00018
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (SVK081) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = 90.000 RCS = 1.000
GAS = 1.000

RUN NO. 2592/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	ALPHA	BETA	DBETA	CN	CLM	CA	CY	CYN	CBL
4.985	-50.544	-4.97714	-.00075	.00627	-.16006	.02286	.05431	.00020	-.00090	.00066
4.983	15.121	-4.95726	-.00105	-.00023	-.11957	.03142	.04961	.00123	-.00053	.00021
5.005	48.975	-4.97116	-.00138	.00491	-.12132	.02724	.04512	.00080	-.00028	.00056
5.020	98.809	-4.97844	-.00177	.00184	-.14343	.02048	.03915	.00029	-.00000	.00018
5.058	198.570	-4.98370	-.00195	-.01005	-.14785	.01502	.04118	.00122	.00007	-.00001
5.029	298.550	-4.96977	-.00194	-.00001	-.16127	.00912	.03950	.00113	-.00001	.00017
5.022	398.820	-4.98897	-.00193	.00489	-.17808	.01088	.03792	.00107	.00000	.00024
4.958	599.650	-4.98743	-.00189	.00530	-.18972	.01315	.03895	.00104	-.00000	.00018
	GRADIENT	-.32850	-.00007	-.00002	-.00791	.00208	.00328	.00008	-.00004	.00001

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK081) (20 APR 77)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1089.6000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 375.0000 IN. ZO
SCALE .0125

PARAMETRIC DATA

ALPHA = -5.000 BETA = .000
DBETA = .000 X = 200.000
Y = .000 ELEVON = .000
UMBLDR = 90.000 RCS = 1.000
GAS = 1.000

RUN NO. 2586/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-10.000	399.930	200.03000	.44517	-.10964	.02914	436.18000	.00000	.00000	652.78000	.00000	.00000
-9.983	449.600	199.99000	.12301	-.11192	.08179	437.55000	.00000	.00000	654.83000	.00000	.00000
-9.978	499.270	200.06000	.00689	-.07419	.12731	437.41000	.00000	.00000	654.62000	.00000	.00000
-9.960	598.910	199.92000	.35969	-.08272	.07457	437.42000	.00000	.00000	654.64000	.00000	.00000
-9.950	698.640	199.91000	.03165	-.07941	.07438	437.11000	.00000	.00000	654.17000	.00000	.00000
-10.007	799.310	200.12000	.25415	-.06933	.08370	437.30000	.00000	.00000	654.45000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(04RC1) W/ET SEPARATING (TVK081) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2588/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
-4.994	239.600	200.05000	-.27096	-.14423	.02547	435.87000	.00000	.00000	652.32000	.00000	.00000
-4.998	249.620	200.10000	.02305	-.14753	.02602	435.48000	.00000	.00000	651.73000	.00000	.00000
-4.986	299.190	200.14000	-.02402	-.11811	.05128	435.72000	.00000	.00000	652.10000	.00000	.00000
-4.959	398.750	200.05000	.04623	-.07456	.10973	435.94000	.00000	.00000	652.42000	.00000	.00000
-4.961	498.720	200.04000	.03327	-.08357	.07060	436.03000	.00000	.00000	652.56000	.00000	.00000
-4.955	598.890	200.02000	.19369	-.07768	.06812	435.90000	.00000	.00000	652.36000	.00000	.00000
-5.014	699.480	200.13000	.03785	-.05351	.07352	435.71000	.00000	.00000	652.08000	.00000	.00000
-5.051	800.110	200.25000	.14529	-.06499	.07120	435.68000	.00000	.00000	652.03000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2590/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
.002	99.523	200.13000	.44749	-.09159	.06261	434.32000	.00000	.00000	650.00000	.00000	.00000
.023	148.840	200.19000	-.07843	-.10767	.04032	434.76000	.00000	.00000	650.69000	.00000	.00000
.023	199.060	200.15000	.00556	-.11551	.05388	433.64000	.00000	.00000	648.99000	.00000	.00000
.042	298.530	200.14000	.00879	-.07447	.09003	432.82000	.00000	.00000	647.76000	.00000	.00000
.037	398.640	200.10000	.02041	-.06232	.10389	433.48000	.00000	.00000	648.74000	.00000	.00000
.021	499.930	200.09000	.85161	-.07880	.05935	433.43000	.00000	.00000	648.66000	.00000	.00000
-.020	599.490	200.21000	.07680	-.06454	.06853	432.32000	.00000	.00000	647.00000	.00000	.00000
-.029	699.790	200.24000	.19715	-.06105	.06614	433.50000	.00000	.00000	648.77000	.00000	.00000
-.001	799.310	200.21000	.22303	-.05914	.06335	433.43000	.00000	.00000	648.67000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2592/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	CHMD	CNFD	CTFD	CTFS	CTFU	CTAD	CTAS	CTAU
4.985	-50.544	200.20000	.28588	-.07675	.06910	432.54000	.00000	.00000	647.33000	.00000	.00000
4.983	15.121	200.08000	-.10605	-.06794	.07516	432.19000	.00000	.00000	646.80000	.00000	.00000
5.005	48.975	200.17000	.16586	-.07072	.07024	432.67000	.00000	.00000	647.53000	.00000	.00000
5.020	99.809	200.17000	-.15005	-.07291	.06534	431.27000	.00000	.00000	645.44000	.00000	.00000
5.058	198.570	200.12000	-.82294	-.06280	.06139	432.47000	.00000	.00000	647.22000	.00000	.00000
5.029	298.550	200.25000	-.06703	-.05463	.09295	431.89000	.00000	.00000	646.36000	.00000	.00000
5.022	398.820	200.32000	.08556	-.07028	.05761	431.59000	.00000	.00000	645.90000	.00000	.00000
4.958	599.650	200.27000	.26233	-.05799	.06529	432.04000	.00000	.00000	646.58000	.00000	.00000
	GRADIENT	13.23193	-.00701	-.00449	.00497	28.58210	.00000	.00000	42.77495	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK081) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLOR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2586/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-10.000	399.930	976.86000	976.86000	88.00000	976.86000	976.64000	72.00000	73.00000	27.92500	99.39000
-9.983	449.600	977.03000	977.03000	88.00000	977.03000	976.64000	72.00000	73.00000	28.54000	99.39000
-9.978	499.270	977.20000	977.20000	88.00000	977.20000	976.64000	72.00000	73.00000	27.71700	99.39000
-9.960	598.910	977.24000	977.24000	88.00000	977.24000	976.64000	72.00000	73.00000	24.68900	99.39000
-9.950	698.640	977.50000	977.50000	88.00000	977.50000	976.64000	72.00000	73.00000	20.67400	99.39000
-10.007	799.310	977.44000	977.44000	88.00000	977.44000	976.64000	72.00000	73.00000	16.70500	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2588/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
-4.994	239.600	979.07000	979.07000	88.00000	979.07000	978.82000	72.00000	74.00000	27.95000	99.39000
-4.998	249.620	979.14000	979.14000	88.00000	979.14000	978.82000	72.00000	74.00000	27.47300	99.39000
-4.986	299.190	979.21000	979.21000	88.00000	979.21000	978.82000	72.00000	74.00000	27.87700	99.39000
-4.959	398.750	979.22000	979.22000	88.00000	979.22000	978.82000	72.00000	74.00000	26.29300	99.39000
-4.961	498.720	979.43000	979.43000	88.00000	979.43000	978.82000	72.00000	74.00000	23.96200	99.39000
-4.965	598.890	979.12000	979.12000	88.00000	979.12000	978.82000	72.00000	74.00000	20.95300	99.39000
-5.014	699.480	979.19000	979.19000	88.00000	979.19000	978.82000	72.00000	74.00000	17.74400	99.39000
-5.051	800.110	979.11000	979.11000	88.00000	979.11000	978.82000	72.00000	74.00000	15.16300	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2590/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
.002	99.523	978.94000	978.94000	85.00000	978.94000	978.68999	71.00000	74.00000	20.39200	99.39000
.023	148.840	979.02000	979.02000	85.00000	979.02000	978.68999	71.00000	74.00000	17.78700	99.39000
.023	199.060	978.85000	978.85000	85.00000	978.85000	978.68999	71.00000	74.00000	18.71700	99.39000
.042	299.530	978.91000	978.91000	85.00000	978.91000	978.68999	71.00000	74.00000	19.96000	99.39000
.037	398.640	978.96000	978.96000	85.00000	978.96000	978.68999	71.00000	74.00000	19.40200	99.39000
.021	499.930	978.84000	978.84000	86.00000	978.84000	978.68999	71.00000	74.00000	18.33600	99.39000
-.020	599.490	978.72000	978.72000	86.00000	978.72000	978.68999	71.00000	74.00000	16.19500	99.39000
-.029	699.790	978.52000	978.52000	86.00000	978.52000	978.68999	71.00000	74.00000	13.95000	99.39000
-.001	799.310	978.85000	978.85000	86.00000	978.85000	978.68999	71.00000	74.00000	11.98400	99.39000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ORBITER(O4RC1) W/ET SEPARATING (UVK081) (20 APR 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1089.6000 IN. XO		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YO		
BREF =	1290.3000 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2592/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	PRC	PRC2	TGAS	PS3	DLPBAL	TB1	TB2	DT	T
4.985	-50.544	978.26000	978.26000	86.00000	978.26000	978.02000	70.00000	75.00000	12.37900	99.39000
4.983	15.121	978.42000	978.42000	86.00000	978.42000	978.02000	70.00000	75.00000	10.13000	99.39000
5.005	48.975	978.57000	978.57000	86.00000	978.57000	978.02000	70.00000	75.00000	8.36800	99.39000
5.020	98.809	978.26000	978.26000	86.00000	978.26000	978.02000	70.00000	75.00000	8.02040	99.39000
5.058	198.570	978.58000	978.58000	86.00000	978.58000	978.02000	70.00000	75.00000	9.52080	99.39000
5.029	298.550	978.22000	978.22000	85.00000	978.22000	978.02000	70.00000	75.00000	11.04900	99.39000
5.022	398.820	978.49000	978.49000	86.00000	978.49000	978.02000	70.00000	75.00000	12.20800	99.39000
4.958	599.650	978.56000	978.56000	86.00000	978.55000	978.02000	70.00000	75.00000	11.21800	99.39000
	GRADIENT	64.70604	64.70604	5.68745	64.70604	64.67958	4.62932	4.95999	.66993	6.57298

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK081) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2586/ 0 RN/L = .87 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-10.000	399.930	200.03000	.44517	-14.99800	.00514	-.27966	-.04583	.00654	.00113	.00069	.09657
-9.983	449.600	199.99000	.12301	-14.98200	.00202	-.29084	-.03686	.00762	.00059	.00073	.10391
-9.978	499.270	200.06000	.00689	-14.97500	.00150	-.30125	-.02577	.00914	-.00001	.00074	.10803
-9.960	598.910	199.92000	.35959	-14.94900	.00679	-.32214	-.00119	.00984	-.00079	.00060	.12060
-9.950	698.640	199.91000	.03165	-14.93800	.00262	-.33765	.02174	.00981	-.00167	.00054	.13942
-10.007	799.310	200.12000	.25415	-14.99500	.00406	-.30696	.01441	.01005	-.00199	.00076	.14034
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

V41B-D9A (IA22),ET SEPARATING FROM ORB (O4RC1) (AVK081) (04 MAY 77)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1328.7200 IN. XT		
LREF =	1290.3000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1290.3000 INCHES	ZMRP =	416.4000 IN. ZT		
SCALE =	.0125				

PARAMETRIC DATA

ALPHA =	-5.000	BETA =	.000
DBETA =	.000	X =	200.000
Y =	.000	ELEVON =	.000
UMBLDR =	90.000	RCS =	1.000
GAS =	1.000		

RUN NO. 2588/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
-4.994	239.600	200.05000	-.27096	-9.97560	-.00509	-.20797	-.03324	.00619	.00098	.00047	.09759
-4.998	249.620	200.10000	.02305	-9.98170	.00020	-.20703	-.03449	.00792	.00080	.00046	.09697
-4.985	299.190	200.14000	-.02402	-9.97520	-.00055	-.19584	-.03348	.00333	.00131	.00044	.09629
-4.959	398.750	200.05000	.04623	-9.95120	.00279	-.21031	-.01555	.00637	.00029	.00044	.10071
-4.961	498.720	200.04000	.03327	-9.95080	.00295	-.22165	.00355	.00944	-.00051	.00038	.11214
-4.965	598.890	200.02000	.19369	-9.95320	.00406	-.22492	.01816	.00770	-.00117	.00035	.12225
-5.014	699.480	200.13000	.03785	-10.00100	-.00009	-.18555	.00378	.00738	-.00080	.00047	.11746
-5.051	800.110	200.25000	.14529	-10.03800	-.00113	-.13305	-.02697	.00432	.00077	.00017	.09555
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2590/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
.002	99.523	200.13000	.44749	-4.96390	.00617	-.14206	-.02764	.00695	.00096	.00019	.09747
.023	148.840	200.19000	-.07843	-4.95530	-.00022	-.12488	-.02646	.00228	.00158	.00027	.09133
.023	199.060	200.15000	.00556	-4.95550	-.00010	-.12732	-.02013	.00377	.00132	.00029	.09083
.042	299.530	200.14000	.00879	-4.94620	.00159	-.13217	-.00361	.00350	.00097	.00025	.09791
.037	398.640	200.10000	.02041	-4.95350	.00240	-.13818	.01146	.00481	.00016	.00020	.10594
.021	498.930	200.09000	.85161	-4.96700	.01298	-.13275	.01998	.00623	-.00048	.00027	.11177
-.020	599.490	200.21000	.07680	-5.00790	.00007	-.09342	.00426	.00439	.00002	.00028	.10458
-.029	699.790	200.24000	.19715	-5.01630	.00070	-.05992	-.01531	.00373	.00065	.00002	.09991
-.001	799.310	200.21000	.22803	-4.98200	.00334	-.05998	-.01535	.00393	.00078	.00001	.09200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2592/ 0 RN/L = .88 GRADIENT INTERVAL = -5.00/ 5.00

DALPHA	Z	X	Y	ALPHAT	BETAT	CN	CLM	CY	CYN	CBL	CA
4.985	-50.544	200.20000	.28588	.00776	.00552	-.04968	-.02193	.00479	.00039	.00016	.08819
4.983	15.121	200.08000	-.10605	.01524	-.00128	-.07224	-.01878	.00533	.00082	.00014	.09237
5.005	48.975	200.17000	.16586	.03344	.00353	-.06575	-.01433	.00588	.00097	.00017	.09331
5.020	98.809	200.17000	-.15005	.04106	.00007	-.06055	-.00726	.00436	.00075	.00015	.09151
5.058	198.570	200.12000	-.82294	.07480	-.01199	-.06687	.00873	.00345	.00064	.00013	.09626
5.029	298.550	200.25000	-.06703	.03963	-.00195	-.06716	.02132	.00355	.00052	.00012	.10228
5.022	398.820	200.32000	.02556	.03333	.00296	-.05992	.02831	.00493	-.00029	.00022	.10635
4.958	598.650	200.27000	.26233	-.02913	.00341	-.00265	.00111	.00336	.00036	.00002	.08877
	GRADIENT	13.23193	-.00701	.00101	-.00008	-.00478	-.00124	.00035	.00005	.00001	.00611